

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 21st Year • Single Copy: \$1

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Vol. 21 No. 7 - 247th Consecutive Monthly Issue - Baraboo, Wisconsin - July 1990

Telegraph Club Special Event Station Honors S.F.B. Morse



The Morse Telegraph Club operates Special Event Station AD9E every May at the Mid-Continent Railway Museum to honor Samuel Morse, inventor of the telegraph. Shown are, standing, Art Kleefisch, W9WSS, Baraboo; Sid Vaughn, NØDJD, Mt. Vernon, IA; Bill Dunbar, AD9E, Normal, IL (MTC president); and Larry Moe, KØSIA, Marion, IA. Seated are Bob King, KA9GNY, Baraboo, and Fred Becker, W9KKM, Wisconsin Dells. Read more about the MTC on page 12 of this issue.

Techs Get Relief from Michigan "Scanner Law"

Technician class licensees are now included in an exemption to Michigan's "scanner law," thanks to the efforts of a number of state amateurs. Gov. James J. Blanchard, on Wednesday, May 23, signed House Bill 4750, making the change official.

Although a law had been on Michigan's books for many years excluding "Conditional, General, Advanced, and Extra class" licensees, it apparently had never been prosecuted. The general feeling among hams was that they were excluded from laws pertaining to the monitoring of police radio frequencies but, in fact, Technician class hams fell under the existing law.

Among the many hams who worked behind the scenes for passage of the bill were Don Spillman, WZ80, an international representative for the United Auto Workers, and Dave Norris, N8HKV, a former police officer.

The signing ceremony was carried live via Amateur Radio, on 440 MHz to an in-car repeater parked outside the statehouse, then to a Lansing repeater and on to some 14 repeaters around the state.

(Please turn to page 9)

ON THE INSIDE

Swapfests and Other Social Events	2
Club Meetings	2
The Test Point	3
Wisconsin Nets Association	4
Correspondence	4
Here and There	5
John's Junk Box	6
220 Users vs. the FCC	8
Relay Helps Young Soviet Amateur	8
Eau Claire Amateur Radio Club	9
Riverland Amateur Radio Club	10
Morse Telegraph Club News	12
Northern Wisconsin Radio Club	14
Taylor County Area Am. Radio Club	16
The Wisconsin Packeteer	17
Yellow Thunder Amateur Radio Club	19

ELMER

by Rich Regent, K9GDF



Swapfests and other Social Events

SATURDAY, JULY 7, 1990. South Milwaukee ARC Swapfest at the American Legion Park, Shepard Ave., Oak Creek, WI. Contact: SMARC, P.O. Box 102, Milwaukee, WI 53172. (See for flyer ad with map and more details elsewhere in this issue for this fine summer swapfest.)

SUNDAY, JULY 8, 1990. Downers Grove, IL. Contact: Dupage ARC, Ed Weinstein, 7511 Walnut Ave., Woodridge, IL 60517. (708) 985-0527

SATURDAY, JULY 14, 1990. Eau Claire Hamfest and Computer Expo., Sponsored by the Eau Claire ARC. 4-H buildings on Fairfax St., behind Highland Mall. Packet meeting at 10:30 a.m. with live demonstration. 8' tables \$3.00, Dealers \$5.00. Amateur license test given from 9:00 a.m. to 1:00 p.m., all walk-ins. Contact Liz Seasing, 1129 McKinley Road, Eau Claire, WI 54701. (715) 834-1303. (See ad elsewhere in this issue for more information.)

JULY 28-31, 1990. EAA Fly-in & Convention at Oshkosh, WI. The Fox cities ARC will operate W9ZL, a special event station. The club will operate in the general portions of the 10, 15, 20 and 40 meter bands, primarily during the daylight hours. Plans are to operate on packet, cw, phone, rtty and atv modes. QSL with 8x10 S.A.S.E. to Wayne Pennings, WD9FLJ, 913 N. Mason St Appleton, WI. All QSLs must include contact numbers.

SUNDAY, AUGUST 5, 1990. Fox River Radio League, Hamfest at Sugar Grove (5 miles NW of Aurora), IL. Contact Fox River Radio League, P.O. Box 443, Aurora, IL 60507.

SATURDAY, AUGUST 11, 1990. Rhinelander WI Swapfest, at the Gigantic Rhinelander Ice Arena. Contact: Leonard Bauman, K9RMN, 804 Lincoln St., Rhinelander WI 54501. (715) 369-3296 or 369-5564.

SUNDAY, SEPTEMBER 9, 1990. BARS 6th annual Ham/Computerfest at the inwood Recreation Center, 3000 W. Jefferson St., Joliet, IL. Contact: BARS Hotline, (708) 759-7005.

SATURDAY, OCTOBER 6, 1990. FALLFEST 90 sponsored by the Green Bay Mike & Key Club., at the Green Bay Community Center. Contact Green Bay Mike & Key club, P.O. Box 13351, Green Bay, WI 54307. (414) 432-3491.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

BADGER AMATEUR RADIO SOCIETY
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)
Second Wednesday.

EAU CLAIRE AMATEUR RADIO CLUB
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams,

guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB
Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 766-3886.

GREATER MILWAUKEE DX ASSOCIATION
Fourth Monday of the month at 7:30 p.m. Contact Jerry Scherckenbach, N9AW, at (414) 481-8831 for meeting location.

GREEN BAY MIKE AND KEY CLUB
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORAINÉ RADIO AMATEURS
Second Friday, 7:30 p.m. at the Waukesha County Technical College, Campus Science Building, Room 102. Talk-in on the N9KS 147.39 repeater.

LAKE SHORE RPTR. ASSN.
Last Tuesday, Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MADISON AREA REPEATER ASSOCIATION
1990 meeting dates: Mondays, September 10, & November 12.

MANITOWOC COUNTY RADIO AMATEURS
Directors Meeting: First Wednesday.
General meeting: Second Wednesday.
Both meetings held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB
Fourth Thursday - Wauwatosa Savings and Loan, 7500 W. State St. (November on the third Thursday. No meetings in July, August and December.) Meetings begin at 7:00 pm.

NORTHERN WISCONSIN RADIO CLUB
4th Tuesday - 7:30 p.m., Sept. through April. Peppermill Restaurant, Thunderbird Mall North, Menomonie, WI. Guests welcome.

NORTHWOODS ARC (RHINELANDER WI)
Third Tuesday. Doors open at 7:00 p.m. Meeting at 7:30 p.m. South Park School, Rhinelander, WI. Tail-in on 146.93/.34. All interested visitors to the Northwoods are welcomed.

OZAUKEE RADIO CLUB
Second Wednesday - 7:30 p.m. - Saukville Community Center.

QCWA - WISCONSIN CHAPTER #55
Contact Robert Halbman, AJ9P, Treasurer, For

BADGER STATE SMOKE SIGNALS

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EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

DISPLAY ADS or INQUIRIES REGARDING DISPLAY ADS may be directed to Harry Westlund or Kenneth Ebnetter, addresses above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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information about meeting dates or joining QCWA Chapter #55. The Wisconsin Chapter holds Spring and Fall dinner meetings.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162
Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

RACINE MEGACYCLE CLUB
Second Monday, 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RIVERLAND AMATEUR RADIO CLUB
First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB
Monthly - first Tuesday - 7:00 p.m. at Dodge County Sheriff's Department, 141 N. Main, Juneau, WI.

ARES Net: 146.04/146.64 Mondays at 7:30 p.m.
Saturdays on 7277 KHz at 10:30 a.m.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB
Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB
First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC) MEDFORD
Usually the 2nd Thursday of the month at 7:00 PM sharp. Usual location: emergency government meeting room, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.75/15 or 145.27(-600) repeaters. Amateurs & guests are welcome. ARS Net, Wednesday nights at 8:30 PM on 147.75/15. For info contact: Rolland Walty, W9LEE, W4117 Hwy. 102, Westboro, WI 54490. (715) 427-3492

TRI-COUNTY AMATEUR RADIO CLUB
Second Sunday of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WASHINGTON COUNTY AMATEUR RADIO CLUB
Tuesday: ARES/RACES - 7:30 p.m., club meeting - 8:00 p.m., Town of Polk Town Hall, Hwy. 60 and Scenic Dr. Net on 146.13/73 every Monday 7:30 p.m.

WATERTOWN AMATEUR RADIO CLUB
First Thursday of the month at 7:00 p.m., The Watertown Public Library, 100 S. Water St., Watertown, WI

WAUPACA AMATEUR RADIO CLUB
First Saturday in March, June, September and December.

WEST ALLIS RADIO AMATEUR CLUB
Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN ASSOCIATION OF REPEATERS
Meetings are held Quarterly, with time and location to be announced. Repeater licensees, trustees, and sponsors are urged to attend W.A.R.

meetings. All interested parties are welcome, as well.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)
First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)
Days rotate: 1990 meeting dates:
Fri. Jul. 10, room 14; Wed. Aug. 15, room 14;
Thu. Sep. 13, room 14; Tue. Oct. 16, room 12;
Wed. Nov. 14, room 14; Thu. Dec. 13, room 14.
All meeting at the Baraboo Civic Center, Baraboo, WI. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area. (Underlined are added or changed since last months BSSS.)

July 13-14, 1990	Eau Claire, WI
September 13, 1990	Eau Claire, WI
September 15, 1990	Milwaukee, WI (BE)
September 15, 1990	Dubuque, IA
October 20, 1990	Milwaukee, WI (BE)
November 3, 1990	Menomonie, WI
November 17, 1990	Milwaukee, WI (BE)
December 8, 1990	Dubuque, IA
December 15, 1990	Milwaukee, WI (BE)
Monthly, First Sat.	Racine, WI
(except January, July & August)	
Monthly, Last Sat.	Tomahawk, WI
(January thru October only)	
Monthly, Third Sat.	Loves Park, IL
Minnesota tests listed at end of column	

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.95 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB - MRAC/VEC
1990 examination dates: tba

Tests are Wednesday evenings at 7:00 p.m. at Wauwatosa East High School, north 74th and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the 2nd floor. Please arrive promptly so testing can be completed before 10:00 p.m. Bring along your original license and three (3) good photocopies, plus two forms of identification, such as a driver's license, etc. A pen and \$4.75 for the exam fee is also required. WALKINS are welcome. To register in advance on a 15 cent U.S. post card, print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa, WI 53226, or to Ed Seruga, KE9JJ, 3840 South 43rd Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545-6299.

BADGER EXAMINERS (BE) - MILWAUKEE
Sep. 15, Oct. 2, Nov. 17, & Dec. 15.

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walkins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

MENOMONIE, WI (ARRL-VEC)
November 3, 1990

Credit Union Bldg., 444 S. Broadway, Menomonie, WI. Contact: Dr. T. King, WF9I, 108 Shorewood Dr., Menomonie, WI 54751. (715) 235-5757.

EAU CLAIRE, WI

Tests will be given on the following dates: July 13 and 14, and September 13, 1990

The September examinations will be given at the Facilities Management Building, The University of Wisconsin, Eau Claire Campus. The July Examinations will be held in conjunction with our Hamfest at the Eau Claire Junior Fair Grounds.

MADISON WI - ARRL/VEC

All exams will be held at Fire Station No. 2, 421 Grand Canyon Dr.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Exams are given at the Red Cross Building, 4521 Taylor Avenue, Racine. Walkins are permitted. Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

(continued on page 19)

Wisconsin Nets Association Ltd.

WISCONSIN NETS

Net	WNA	Freq.	UTC	CDT	Manager
BWN	Yes	3984	1100	0600	KC9CJ
BEN	Yes	3985	1700	1200	WA9W
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	2300	1800	KA9FVX
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
6:30 Net	No	01/61	2330	1830	KA9OMC
Gr Bay	No	72/12	0145	2045	WB9NRK
			Thu	Wed	
RACES	No	3993.5	1715	1215	WC9AAG
			USB Tue and Thu		
RACES	No	3993.5	1300	0800	WA9OAY
			LSB Sunday		

Section Manager's

notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Congratulations to WB9RQR, new hard working Emergency Coordinator of Ozaukee County.

Looking for State Government Liaison, any volunteers?

August 11th, Rhinelander Swapfest at Ice Arena, contact K9RMN.

Green Fox ARC Picnic and Auction, usually held in August, will have free food, drink, and admission.

Special Event station W9CQO will be on the air from the telegraph room on August 18th and 19th from restored Cedarburg railroad depot, Pioneer Village, to commemorate Pioneer Day, according to W9NZF. Frequencies used will be 3.860, 7.260, 14.260, 21.335, and 28.360 MHz.

New third Wisconsin Chapter of QCWA recently formed is centered around the Stevens Point area; contact W9BCC for details.

N9ICH earned DXCC.

Congratulations to new officers of Milwaukee RAC: Pres. W9PWG; V. Pres. W9VQD; Sec. KE9JJ; and Treas. KB9DNE. MRAC School, with instruction in all amateur classes, starts August 29th.

For more Amateur Radio activities, listen to the Public Service Net on 146.91 MHz, Sundays at 8:30 p.m.

Sorry to report Silent Keys W9CAS, K9IWC, and WM9Z (ex-W9PAS).

Correspondence

From Our Readers

THIS IS AN OPEN LETTER TO ALL THE READERS OF BADGER STATE SMOKE SIGNALS:

It was with more than a little sadness that I read in BSSS of Jim Law, W9CXY, becoming a Silent Key.

Jim was someone I never met face-to-face. But, after working him almost daily on the Wisconsin Intrastate Net, I could pick out his fist through the worst QRN and QSB. Unlike many bug operators, Jim's fist was smooth and a real pleasure to copy - especially at QRQ.

I remember back to 1978, and being very green at traffic handling. Jim was part of a group which included Art (W9DND), and Les (W9YCV), who could pound brass at near-teletype speeds, it seemed. These are definitely masters of the art, and what a group to learn from!

Jim always led, and taught, by example. He slowed down a bit, my code speed increased a lot. And, his disciplined oper-

ating technique, so efficient, was something to marvel at. I remember wishing to become as good an operator as he and Art, and I tried to emulate their behavior. A certain pride was felt on 9RN and CAN upon hearing Jim there, representing TCC.

When Jim moved into St. Joseph's Nursing Home, his absence was noted. The nets just didn't seem quite the same, as I'm sure many CW net operators of today must note. It was a special pleasure to hear Jim return to the air, and many thanks must be given to the staff of St. Joseph's.

The number of messages we must have passed seems countless. And Jim's lessons on operating have simply been priceless.

A very fond farewell to you, Jim.

- Dave Birdsell, N6MLW
(ex- N9BYK/WD9BCM)

BADGER STATE SMOKE SIGNALS HERALDED

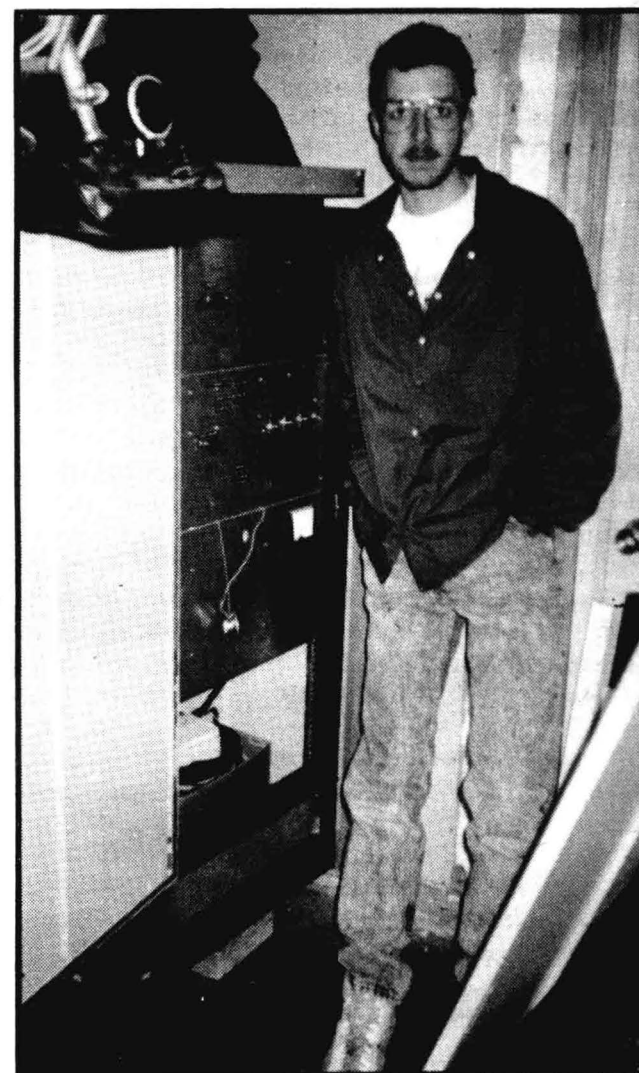
Ken and the BSSS Gang:

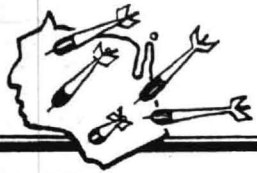
You are doing a great job!

- Don Stenz, K9KSA

KA9VDU and KA9VDU/R

The KA9VDU 440 MHz repeater has been upgraded a great deal since we last published a photo of it over a year ago. That's KA9VDU/R on the left, and Greg Zier, KA9VDU, on the right. The output frequency of KA9VDU/R is 444.000. If you'd like more info, drop Greg a note.





HERE and THERE

AMATEUR CALL SIGN UPDATE: The following is a list of the FCC's most recently issued call signs, as of May 1.

Dist	Group A Extra	Group B Adv	Group C Tec/Gen	Group D Novice
0	AA0AZ	KF0KC	N0LVA	KB0GPB
1	WF1J	KC1UO	N1HOA	KA1VOO
2	WY2C	KE2TJ	N2KPW	KB2JYY
3	NZ3I	KD3SC	N3IAV	KA3WET
4	AB4VB	KN4ID	N4YWA	KC4QGP
5	AA5RQ	KI5FA	N5QJH	KB5MNR
6	AA6VL	KK6JU	N6YRK	KC6KPM
7	AA7EM	KG7DG	N7OQX	KB7KPA
8	AA8BA	KF8GC	N8MEX	KB8JTR
9	WR9N	KE9WJ	N9JOA	KB9EQI
GU	KH2M	AH2CG	KH2EJ	WH2AMM
HI	**	AH6KJ	NH6WL	WH6CHT
AK	**	AL7LZ	NL7TW	WL7BYC
USVI	NP2F	KP2BT	NP2DT	WP2AHB
PR	**	KP4QQ	WP4XS	WP4IYE

** All 2 x 1 call signs have been assigned in these districts.

Note: N-prefixed Group C calls for the fourth and sixth districts have nearly been exhausted. After N4ZZZ and N6ZZZ have been assigned, the FCC will assign Technicians and Generals Group D (2 x 3) call signs.

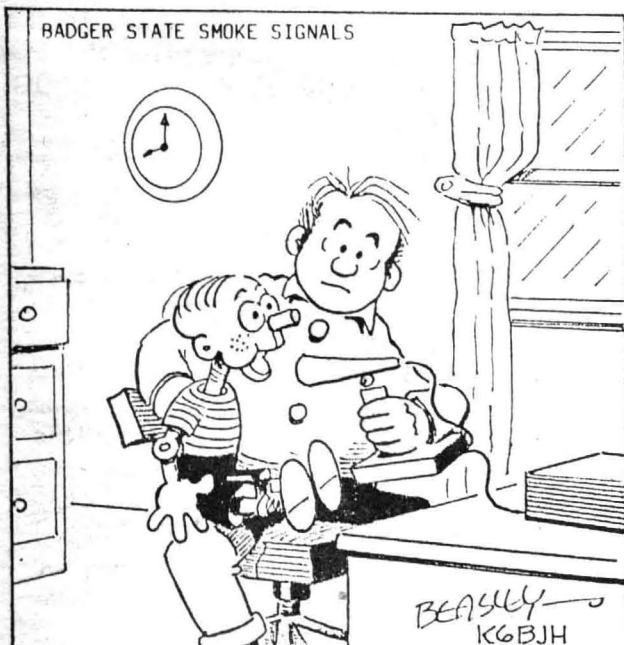
- The ARRL Letter
:-----:

ARRL SECTION MANAGER ELECTION RESULTS: In elections just concluded, the following American Radio Relay League section managers were elected:

Alaska: Harley Steward, KL7IZZ;
Indiana: Peggy Coulter, W9JUI;
Maine: Jeff Weinstein, K1JW;
Oregon: Randy Stimson, KZ7T;
Vermont: Mitch Stern, WB2JSK;

Four races were uncontested, and the following were declared elected:

Delaware: Bob Pegritz, KC3TI;



THIS DUMMY IS REALLY AFRAID OF THE MIKE, BUT I LET HIM HANG AROUND WHENEVER I'M ON THE AIR

Illinois: Sharon Harlan, WB9SFT;
Santa Clara Valley: Steve Wilson, KA6S;
Wisconsin: Richard Regent, K9GDF

For details, see "Happenings" in July QST.

- The ARRL Letter, 06/01/90
:-----:

FORMER HAM ARRESTED: Richard A. Burton, formerly WB6JAC, was arrested May 17 for allegedly operating a radio transmitter without a license, following an investigation by Los Angeles area FCC engineers acting on complaints from amateurs. Burton was charged with three felony counts of violating sections 301 and 501 of the U.S. Code.

In the early 1980s, Burton's license was revoked for various Part 97 violations. After his appeals were turned down, he was ordered off the air, but continued to operate using his rescinded WB6JAC call sign. On Jan. 15, 1984, U.S. District Court Judge Manual Real sentenced Burton on four misdemeanor counts of operating a transmitter without a license. Following appeals, Burton served seven months in jail and five years on probation.

On Monday, May 21, Burton pleaded not guilty on all counts, and was bound over for trial in early July. He could face up to six years in federal prison and substantial fines.

- The ARRL Letter, 06/01/90
:-----:

MORE BAD NEWS FOR THE SHUTTLE: Space Shuttle flight STS-35 was postponed again, just hours from launch on Tuesday, May 29. A reported hydrogen leak caused the launch to be scrubbed, and no new launch date had been set at (ARRL Letter) presstime. This flight is scheduled to carry astronaut Ron Parise, WA4SIR, and the robot package "SAREX" (Shuttle Amateur Radio Experiment).

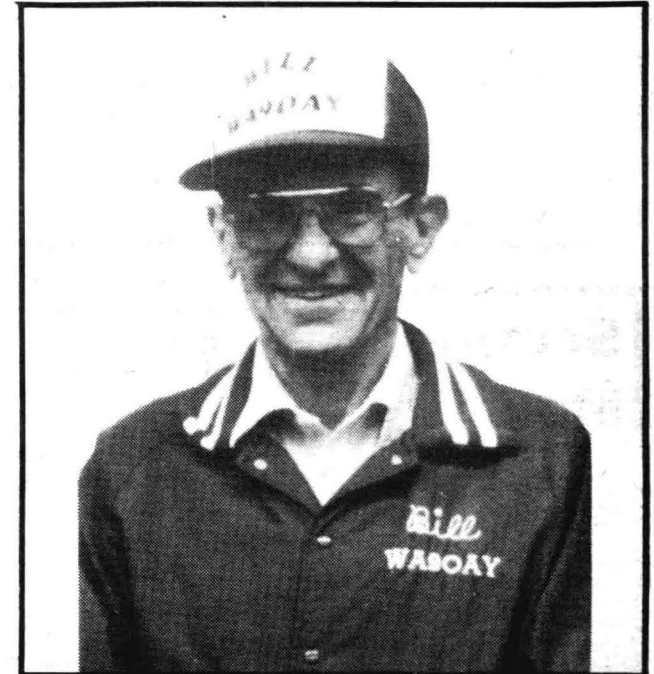
- The ARRL Letter, 6/1/90

EDITOR'S NOTE: The most recent news media reports indicate that the earliest STS-35 may be launched will be in August. The spacecraft was been moved off the launch pad, after engineers could not repair the hydrogen leak while the shuttle was on the pad. Also, remember

that, according to the best information available to us at BSSS, the spacecraft's orbit will take it only 28 degrees above and below the equator - the packet radio station on board will NOT be workable this far north. Some talk was heard about some special packet relays being set up to accommodate those amateurs who would not be in line of sight with the shuttle, but BSSS has no information available regarding this.

- K9ZZ

:-----:



ABOVE IS THE THE VELVET VOICE FROM WATERTOWN, Bill Kimble, WA9OAY. Bill has been a regular on various Wisconsin nets for many years, and is the net manager for the Radio Amateur Civil Emergency Service (RACES) net, held on 3993.5 KHz LSB Sundays at 1300 UTC. This photo was taken at the Madison Swapfest in April, 1990.

:-----:

BADGER STATE SMOKE SIGNALS received a "Superior" rating in the just-completed Amateur Radio News Service publications contest. Of a possible 240 total points, the three judges gave our humble offering 239. Without our volunteer authors, photographers, cartoonists, production helpers, treasurer, and chairman, we'd never have done that well. Thanks to all!

- K9ZZ

BADGER STATE Smoke Signals

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9007

Name: _____ Call (if any): _____

Address: _____ City: _____ State: _____ ZIP: _____

☐ 1 year ☐ 2 years ☐ 3 years

☐ new ☐ renewal



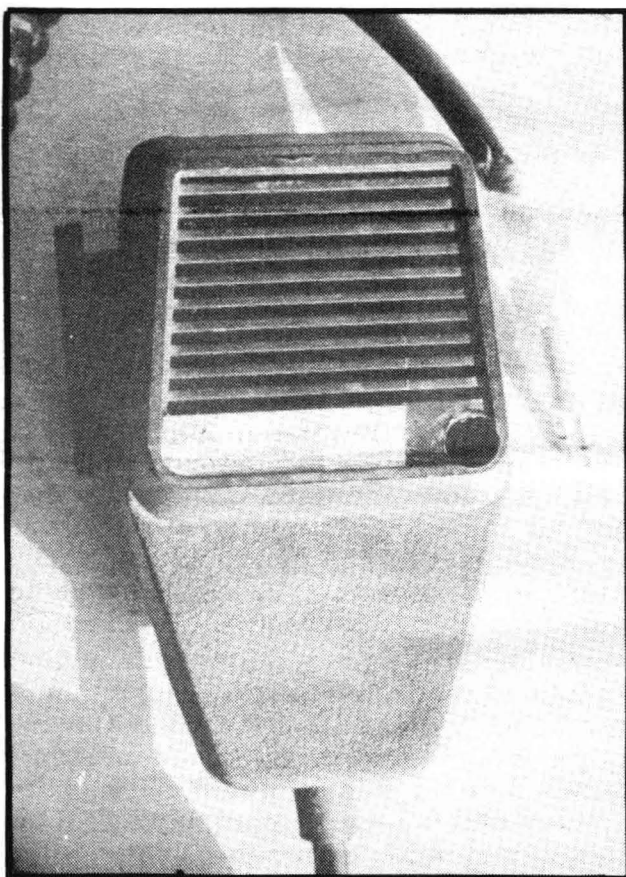
John's Junk Box

By John W. Frank, WB9TQG
P. O. Box 5113
Madison, WI 53705

A LOW BUDGET SPEAKER/MIKE

This column is dedicated to N9BXA. Although some of the parts for this project came from my junkbox, it was Dave Kerl (N9BXA), who used ham ingenuity to put it together and make it work.

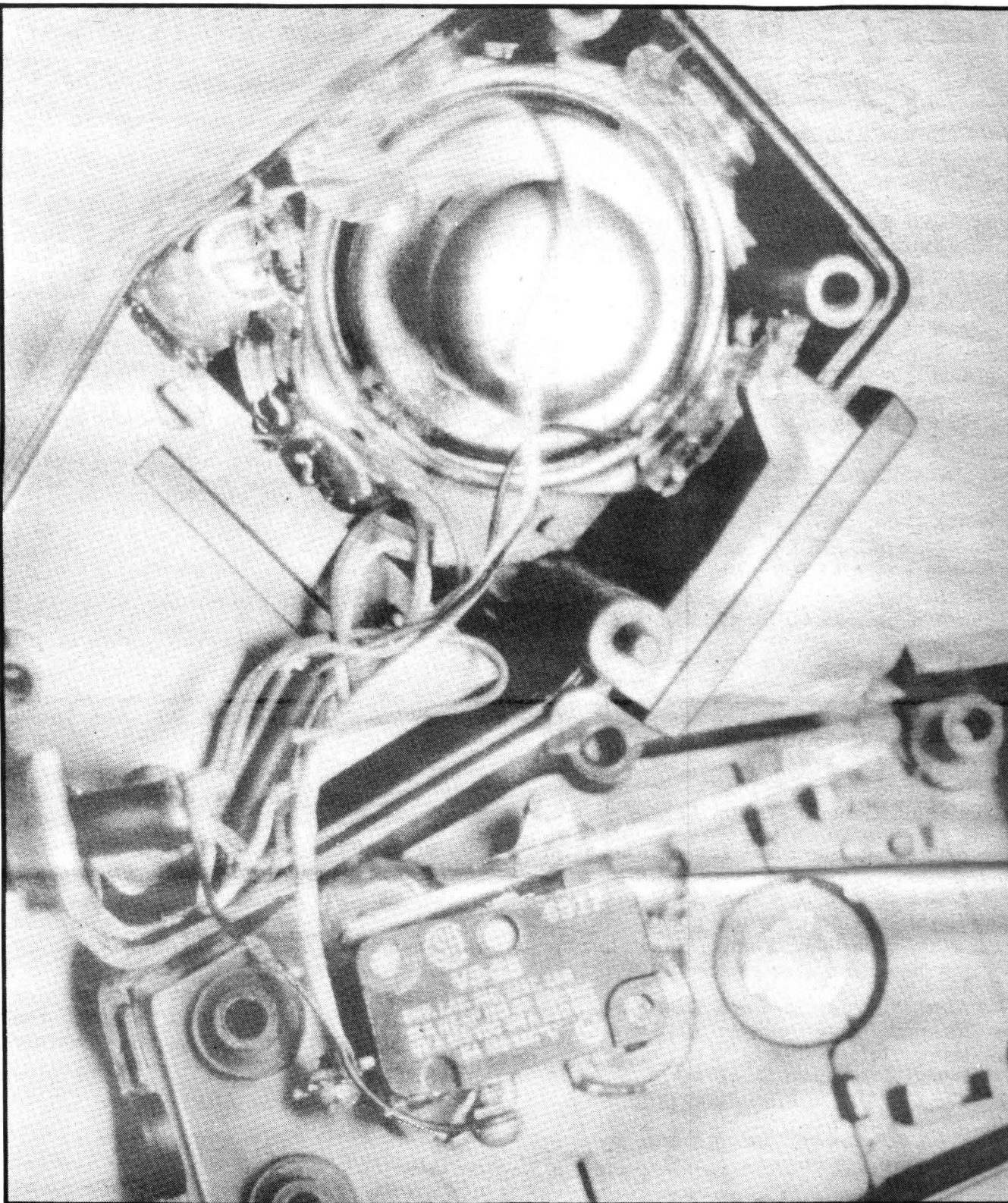
The case for this speaker mike came from an old CB radio microphone. The con-



Made from a discarded CB microphone, the completed homebrew speaker/mike can be built for much less than the cost of a new one.

denser microphone came from Radio Shack. The microswitch came from Dave's junkbox, and a very small 8-ohm dynamic speaker came from my junkbox. The cord was salvaged from some other microphone; the plugs on the cord came with the ICOM handheld Dave uses this homebrew speaker mike with.

When building this speaker mike, Dave drilled a small hole in the front of the microphone case to mount the condenser mike. A microswitch is fastened inside the case as a push-to-talk switch. The small dynamic speaker is mounted where the original dynamic mike had been. I would not recommend trying to use the old mike element as a speaker. Even though a dynamic mike will make sound if you feed audio to



In this photo of the inside of the homebrew speaker/mike, the 8-ohm speaker is in the half of the mike housing at the top. Visible in the bottom half of the microphone case is the microswitch for the push to talk circuit, and the Radio Shack condenser mike is at the upper right of the microswitch.

— Photos by John W. Frank, WB9TQG.

it, it would not provide a good impedance match for the radio.

The schematic for this device is not included in this article, because it is copyrighted by ICOM. However, for anyone interested in building a speaker mike, the schematic appears in every owner's manual for ICOM handhelds. The schematic is also in the service manual for the ICOM O2-AT on page 2-2.

This simple project may not be high tech, but it illustrates how common junkbox items can be recycled into something new and useful.

73, and best of luck with all your electronic recyclables.

License Fees

The FCC may have exempted amateurs from licensing fees, but if you lose your license, it's another story. Karl Pagel, N6BVU, has discovered that after May 21, getting a duplicate copy of your amateur radio ticket will cost \$35. This fee applies only to those seeking replacements of lost or destroyed licenses; the extra \$35 will not be charged for initial upgrades at a VE test or when making changes, such as a new address using a form 610.

— Westlink Report, 6/8/90

Novice Ticket Coming to Great Britain

Great Britain will have new Novice class licensees sometime in 1991, according to Radio Communication, the official journal of the Radio Society of Great Britain. The final draft of the Novice license was announced April 19.

Recognizing "the value of amateur radio as a training ground for careers in electronics and radio engineering," ministers of the Radiocommunications Agency approved, according to RadCom, the following guidelines:

A Novice Class B license, permitting operation on 50 and 430 MHz, as well as on 1.3 and 10 GHz. Passing of a 5 WPM Morse test after as a Novice Class B licensee will allow the licensee privileges on 1.8, 3.5, 10, 21, and 28 MHz, with 5 watts DC input. The 28 MHz privileges include radiotelephony in the 28.3 to 28.5 MHz segment.

(In Great Britain, both "full" and Novice licensees are designated either "A" (including CW), or "B" (codeless).

It should be noted that after 25 years of a codeless "full" license (with full privileges above 30 MHz), Great Britain now prepares to institute a Novice license along the lines of the Novice license that has existed in the U.S. for more than 30 years.

Training courses conducted by RSGB will be followed by a written exam for the Novice Class B license. June RadCom features an article on preparing to teach such classes.

* On an unrelated matter of interest from England, the April 1990 issue of RadCom reports the results of a survey of 10 "old-timers" (over 50 years old). These CW operators were first asked to specify at what frequency they preferred to copy code, then were allowed to actually copy CW. The frequency of the tone they chose was measured, and averaged about 500 Hertz. Manufacturers who design transceivers should note this. "The impact on AF filter design and BFO crystal selection," RadCom says, "is obvious."

- The ARRL Letter, 6/15/90

CONGRATS to the recently elected Section Managers in the ARRL's Central Division. Wisconsin's Rich Regent, K9GDF, was unopposed. Wisconsin is lucky to have him as the Section's highest-level elected ARRL official - he's active on the air; he's diplomatic and helpful. He's a great writer, too, as BSSS readers know. Kudos to Peggy Coulter, W9JUI, Indiana's new SM, a very active traffic handler. And a bouquet of roses to Illinois SM Shari Harlan, WB9SFT, Rockford, who has many of the same talents as our K9GDF.

News Briefs

* The latest issue of WARC Countdown, a newsletter distributed to all International Amateur Radio Union (IARU) member societies, stresses the need to "ensure that at least one suitably qualified radio amateur is designated as a full participant in his country's WARC-92 delegation." Member societies are encouraged to, if necessary, first convince their governments of the value of Amateur Radio, then to make a ham a delegate. "It goes without saying," the newsletter says, "that the case for Amateur Radio at WARC-92 can best be made by a ham."

* Every new ham is special, but Jack Lee is something else again. He eagerly awaits arrival of his Novice ticket after passing the exam May 30 under the watchful eyes of the Newington Amateur Radio League and the Pioneer Valley (Connecticut) Radio Association. The test, administered at W1AW, concluded a licensing class directed by N1FCK and W1VMY. By the way, Mr. Lee's full name is John Maxim Lee, and his grandfather was Hiram Percy Maxim, founder and first president of ARRL.

* FCC has denied a request to establish an Amateur Radio "license" free of any examination. The request for rule making, by Donald L. Stoner, W6TNS, was for a "digital communicator class" permit that would have allowed licensed amateurs to grant permission to up to 26 non-licensed persons to be control operators. Proposed operations would have been on the 33 cm amateur band.

In its denial, dated May 22, the Commission cited federal law precluding operators who have not demonstrated "their qualifications" to the Commission.

* The RSGB Microwave Handbook Vol. 1 is the latest addition to the ARRL library. Edited by G3PFR, it covers microwave theory and practice in mostly non-mathematical language. Two additional volumes will follow. 224 pages, \$35.00 plus \$4.50 postal service shipping and handling, from ARRL HQ (225 Main St., Newington, CT 06111).

* The June issue of QEX, the ARRL Experimenters' Exchange, features a system for TNCs using NET/ROM software to prevent packet collision. This should be of special interest to operators of Packet-Cluster and similar networks.

* July QST solicits nominations for Director and Vice Director in the following ARRL Divisions: Central, Hudson, New England, Northwestern, Roanoke, Rocky Mountain, Southwestern, and West Gulf. See the July QST "Happenings" column for details. (The Central Division is composed of Illinois, Indiana, and Wisconsin. -Ed.)

- The ARRL Letter, 6/15/90

Ozaukee Radio Club operates Flag Day Special Event Station

The Ozaukee Radio Club set up a special event station at Stony Hill School, Waubesa, WI, in conjunction with the Flag Day celebration. Stony Hill School was the birthplace of Flag Day, in 1885. (Flag Day has been observed nationally since 1916). The station was set up on Saturday, June 9, and operated both Saturday and Sunday, using the Ozaukee Radio Club call sign W9CQO.

WB9RQR's A-frame mast, described recently in QST, was erected in a field, and a CCD dipole, fed with open wire line, was raised to the top of the mast. The legs of the dipole were oriented east-west.

A total of 96 contacts was made during the two-day period. Contacts were made with stations in 34 states and in Canada.

The Ozaukee Radio Club is a Special Service Club affiliate of the American Radio Relay League.

- Stan Kaplan, WB9RQR,
11541 N. Laguna Dr., Mequon, WI,
53092, via Rich Regent, K9GDF

DXCC Begins Move to Data Processing

DXCC automation has begun in earnest, with final testing of software completed June 1. New applications and endorsements are entered into a mail log for tracking through the system. This log helps staff members quickly answer questions regarding the status of DXCC applications and endorsements in progress. On June 11, "backfilling" began - the process of entering past records into the computer on a priority basis. As endorsement applications are received, they are backfilled to bring the applicant's record up to date; the endorsement is then processed.

* During the week of June 4, a formal application for DXCC status was received at HQ for the Penguin Islands, a string of 13 islets off the coast of Namibia. The application, made by DK9KX, KC1-AG, and ZS9A, indicates that the islands are claimed by South Africa, and propose DXCC status based on the islets' meeting the 75-mile minimum separation from South Africa. It can be expected that the DX Advisory Committee will require several months to deliberate on the application.

- The ARRL Letter, 6/15/90

220 Users vs the FCC: The Saga Continues

While the Federal Communications Commission continues to consider ways in which the 220-222 MHz band might be used for non-amateur communications, amateurs still occupy the band. More militant ones are again vowing to stay on the 220-222 MHz portion of the 1 1/4 meter band as an act of civil disobedience and public protest, even if it means the loss of their amateur licenses, fines, and imprisonment. Never before has any FCC action angered such a great cross section of the amateur radio community, and many believe the outspoken nature of hams in taking their complaints about the reallocation before Congress has created a split between it and the FCC that will be a long time in repairing.

Recent FCC proposals have given the American Radio Relay League two more opportunities to remind the Commission that action to implement the band in the Part 90 rules is premature, and subject to reversal by the courts. Writing in the May 19th issue of the *ARRL Letter*, editor Jim Cain, K1TN, notes that "bait and switch" is how ARRL General Counsel Chris Imlay, N3AKD, referred to the land mobile industry's comments in FCC's PR Docket 89-552, in which it is suggested the Commission group the proposed 5 KHz voice channels into contiguous blocks of five or ten channels, and to permit time division multiple access (TDMA) schemes for data transmission.

In his reply comments, Imlay pointed out that the 25 or 50 KHz channels proposed by industry for 220-222 MHz in the

name of "spectrum efficiency" already are available in existing land mobile bands.

"...the entire rationale for the reallocation of the 220-222 MHz band.... is now gone.... It is time that the Commission re-evaluated premises which led to the reallocation of the 220-222 MHz band," the League's comments contend. "The conclusions in Docket 87-14 were never correct, and have been shown.... to be untimely."

Last December, the industry proposed PR Docket 89-599, a "Personal Emergency Locator Transmitter System (PELTS) for creation and operation within the confines of the 220-222 MHz band." In comments last March, the League pointed out that the proposal was premature, that regulatory compliance would be likely to be poor, and that very few non-hams had receivers for those frequencies, which most scanners don't cover.

Cain says that the League, in its most recent comments on the matter (May 4), noted that professional search and rescue organizations also saw PELTS as unlikely to be effective, especially in light of the ongoing development of satellite locating systems, and of the burden that would be imposed on users to buy new equipment. The comments concluded by seeking "no action" on the PELTS proposal, particularly in light of the uncertain status of the actual reallocation of the frequencies involved. A decision by the appeals court hearing the case brought by the ARRL to overturn the reallocation is due sometime this fall.

- Westlink Report, 6/8/90

Transcontinental Relay Aids Young Soviet Amateur

American amateurs from coast to coast, using HF, as well as VHF FM and packet, have come to the aid of a critically injured Russian amateur.

On May 25, a group of Soviet hams, from the UZ4FWO club station in Penza, were involved in an automobile accident enroute to a radiosport event. Oleg Kolosilin, RA4FB, was killed. Oleg Porugov, UA4FAY, was seriously injured.

Porugov, 25, lies in a coma in a hospital near Ryazan, about 150 miles from Moscow. He suffers from pneumonia and one lung has collapsed. His condition prevents doctors from moving him to better facilities.

Porugov's attending physician, a Dr. Makarov, has stated "In small Soviet towns, the doctors can be good, but medical supplies - even disposable syringes - are scarce."

In daily contact with Makarov is an American neurosurgeon, Dr. Joseph Izzo, of Foster City, California. Izzo responds to Telex and E-mail messages from Makarov, answering questions by Amateur Radio. The responses, carried on a daily schedule, are between the stations of Len Traubman, W6HJK (a dentist in San Mateo), and UZ4FWO, in Soviet Russia. Help with relaying and translation has been provided by Ed Kritsky, NT2X, and Angel Garcia, WA2-VUY.

Kritsky, who came to the United States from Leningrad in 1978, took a telephone call shortly after the accident from another American amateur. "UZ4FWO needs to talk to you, Ed. They need medical consultation."

Kritsky asked Igor, the UZ4FWO operator, if he had any American ham acquaintances in the medical profession. Igor sug-

gested Traubman and Dr. Lawrence M. Probes, ND8S, who also has acted as a relay station. Meanwhile, Kritsky also had contacted a local physician, Dr. Anatoly Barkan of Brooklyn, another Soviet emigre.

Igor passed the condition of the patient to Kritsky via Amateur Radio, and Kritsky sent it by facsimile to Traubman and Dr. Izzo (who, although not a ham, paid for the initial shipment of drugs).

In addition to medical advice, several hundred dollars worth of supplies for Porugov, including powerful antibiotics and special tracheal tubing, have been arranged for and shipped from the United States. Charles L. Starke, NX2T, a medical internist, arranged for the tubing, which was shuttled to JFK airport by Alan Singer, N2KW.

Singer located Starke, using the Tri-State Packet-Cluster Network.

Thanks to Amateur Radio, Soviet amateurs have been able to receive word that the shipments are enroute, allowing them to get to the Moscow airport in time to arrange for expeditious treatment by customs authorities. One of the UZ4FWO operators has been standing by in Moscow to receive the shipments.

Kritsky observed that, initially, the chief of medicine in Ryazan was skeptical of these arrangements, of taking advice from outsiders. "But once he heard the tone of voice of those talking on 20 meters," Kritsky said, "he knew we were there to help. He knew we cared."

"We are just a few American hams doing what we can," said WA2VUY. "If Igor were not a ham, none of this probably could have happened," he said.

On Monday, June 11, 17 days after the accident, Oleg Porugov, UA4FAY, opened his eyes for the first time, and moved his hand.

- The ARRL Letter, 6/15/90

More Hams in Space

Three more astronauts soon will have Amateur Radio call signs, joining Ken Cameron, KB5AWP, aboard STS-37 (a SAREX mission) in November. Flight commander Steve Nagel and mission specialists Linda Godwin and Jay Apt all have recently passed their Technician class exams. Godwin and Nagel took their exams in Dallas at HamCom on June 9, where Cameron upgraded to General class. Nagel passed his test in May.

The fifth STS-37 crew member, Jerry Ross, has yet to take the plunge, but he "has some books on his desk," according to Cameron.

Space Shuttle STS-35, also a SAREX flight by astronaut Ron Parise, WA4SIR, was postponed again May 29, and has been returned to its hangar for major repairs. Since another Shuttle, carrying a military payload, is scheduled for launch soon, STS-35 has been pushed back to at least August. (See "Here and There," page 5.)

- The ARRL Letter, 6/15/90

Eau Claire Amateur Radio Club

Carl Searing, W9NW
Secretary
1129 McKinley Road
Eau Claire, WI. 54703

MEETING OF 12 JUNE 1990

- 25 PRESENT -

The start of the meeting was delayed considerably, due to a Severe Thunderstorm Warning issued just before the meeting was to start. Several members already at the meeting, plus others on their way, volunteered as spotters and headed to spotting locations as KC9NN assumed his SkyWarn net control duties in the hallway outside the room, using his HT. Spotters included KA9OMC, KA9LJK, W9VAJ, WA9-PAM, KA9D, N9ISN, N9JMB, and N9JMA. The severe weather condition lasted for about an hour, after which many spotters came to the meeting. We had high winds, with some damage, and torrential rains.

The meeting was opened by President Bill Jablonske, W9NNS, at 7:45 p.m. The secretary's and treasurer's reports were read and approved.

There was no formal program, which was perhaps a good thing, as a general discussion of the July 14 hamfest took an hour or more. Subjects included set up/-take down crews, food committee/contributors, ticket sales, raffle, advertising, flyer distribution, vendor signups, etc. We are looking forward to our largest and best hamfest ever.

The temperamental 'phone patch on the 84/24 repeater was mentioned. The repair crew will check it out.

The club has had a 180' Rohn 25G donated to it. Volunteers are being sought for dismantling. Sections will be donated to local packet nodes, and some sections may be sold to members.

KA9LJK will soon complete his new repeater, which will be on 147.195 and 444.675 MHz, linked together. We are looking forward to its appearance in August/-September.

The next meeting will take place on July 10, 1990.

Lunch Committee is KC9NN and W9-BUG.

Meeting adjourned at 8:37 p.m.

Respectfully submitted:

Carl Searing, W9NW, Secretary

Techs Get Relief from Michigan "Scanner Law"

(Continued from front page)

Gov. Blanchard, upon seeing the bill before him, remarked, "When I was a young boy, a friend's father had a ham station in his basement. I remember going there to 'tune in the world.'" Blanchard was carried live on the repeater hook-up.

Lobbying for an amendment to the law began in 1986, and in 1987 a bill iden-

tical to No. 4750 died in session.

On a related note, the American Radio Relay League, on May 16, filed additional comments with the FCC, citing its earlier petition, and asking once again for federal exemption for Amateur Radio operations of all such restrictive local and state "scanner laws."

- The ARRL Letter, 06/01/90,
published by the
American Radio Relay League

ALSO SEE "More on Scanner Laws" on
page 12 of this issue of Badger State
Smoke Signals.

SWAPFEST '90

SPONSORED BY
THE SOUTH MILWAUKEE AMATEUR RADIO CLUB INC.

SATURDAY - JULY 7, 1990 - 7:00 A.M.

AMERICAN LEGION POST 434 - OAK CREEK, WI

BUY - SELL - SWAP

FOOD - DRINKS - PRIZES - CAMPING

FREE BEER

HAPPY TIME

FREE SODA

TICKETS: \$4.00

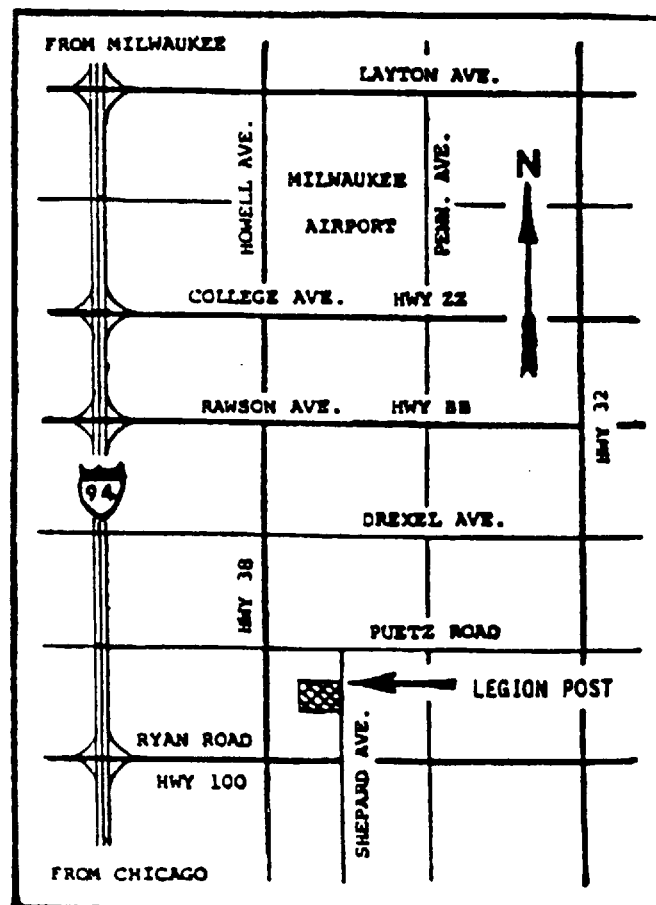
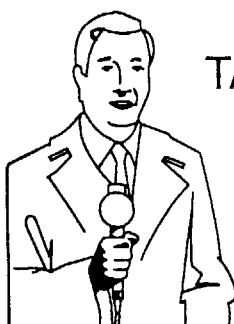
PRIZES!!!

1st PRIZE: \$100

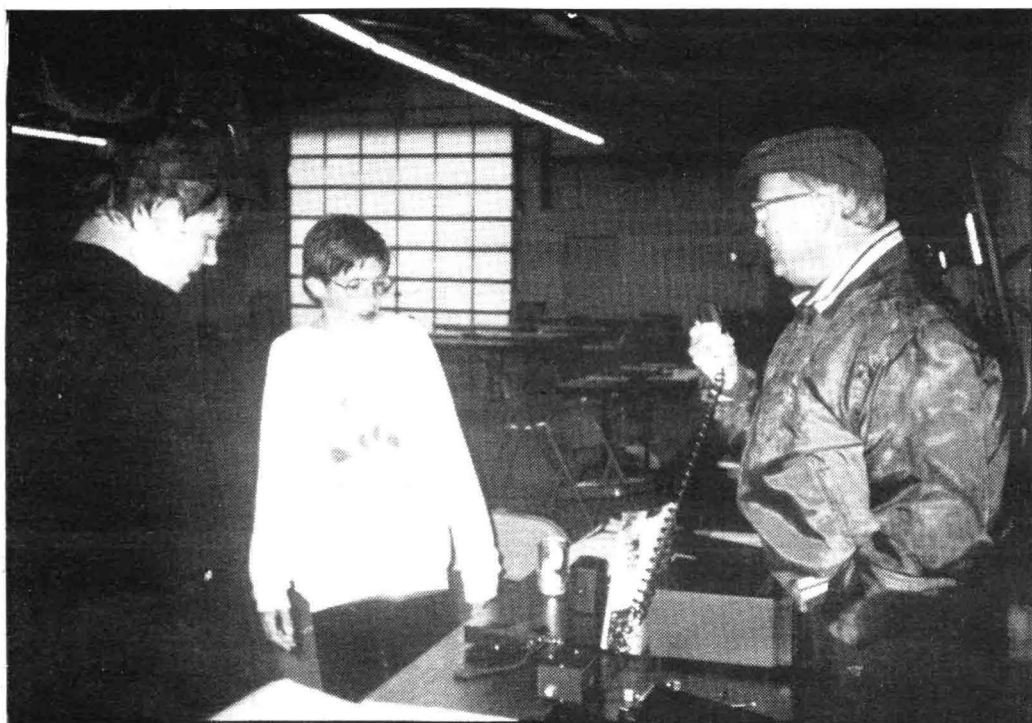
2nd PRIZE: \$50

**PLUS
HOURLY PRIZES!**

**TALK-IN 146.58
WA9TXE/9**



Scouts Enjoy Ham Radio Demo

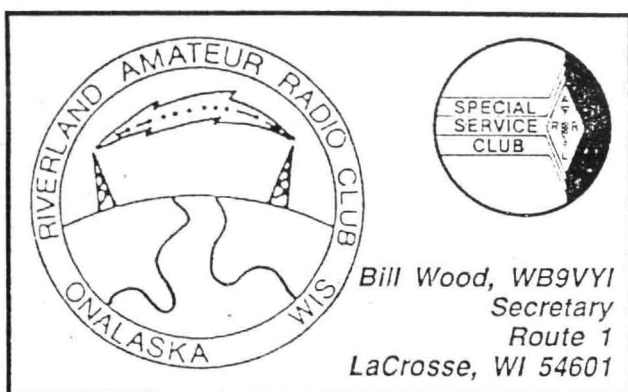


Late May in Wisconsin is "supposed" to be a time when winter's chill has gone until late fall. Late May, 1990, or some of those days at least, didn't come even close to that month's reputation. About 2,000 Boy Scouts, along with their leaders, camped at the Sauk County Fairgrounds in Baraboo for "Circus Heritage Days," in late May; instead of 70 degrees and sunshine, Mother Nature came up with 40 degrees and LOTS of rain.

To help the Scouts toward some of their merit badges, a number of displays were set up in a large building (unheated!). The displays included a working Amateur Radio station, which was installed, including outside antennas, in the cold rain, by Art Kleefisch, W9WSS, Baraboo.

Two stations were set up: one station was operated on 2 meter FM, and the other was on 40 meters. A number of contacts were made on both bands, helping some of the Scouts meet a badge requirement of visiting an operating Ham Radio station. At left, Phil Anderson, W9TP, Baraboo, demonstrates the two meter station to a pair of Scouts from the West Bend area.

Some Scouts left early, due to the poor weather, but they left with badge credit, thanks to Art and Phil, and those who stood by on the air to work the station.



Greetings.

Our president, Dick Low, KØJYB, called the regular monthly meeting of the Riverland Amateur Radio Club to order at 7:30 p.m. June 5th at the Onalaska Civic Center.

Last month's minutes were then accepted as read from the Badger State Smoke Signals.

Next, Arby Boomer, WF9T, gave the treasurer's report. George Kroner, KE9PL, moved, and Karl Olberg, W4ST, seconded the motion to accept the report as presented. All were in favor.

Scott Neader, KA9FOX, talked shortly of Field Day plans, and asked approval of spending \$125.00 for the various needs and wants. Karl, W4ST, moved, and Charlie Burch, KA9UUK, seconded the motion to approve this expense, and it passed unanimously.

Rick Williams, KV9U, reported on the VE testing; about a half dozen upgraded that night.

Bruce Bjerstedt, K9CUT, talked briefly on Novice tapes and books the club should buy to lend to prospective hams. Larry Kapp, N9JFI, and George, KE9PL, will get some tapes and books for the library.

Larry, N9JFI, and Karl Simonson, KB9-EQI, reported they were studying the subject of potential "remote basing" the repeater.

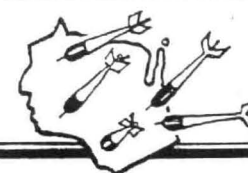
The motion to adjourn, made by Fred Sorenson, NØHRN, was seconded by Charlie, KA9UUK. All were in favor.

Respectfully submitted:
Bill Wood, WB9VYL, Secretary

ATTENDANCE

John Kass
Charlie Burch
George Kroner
Larry Kapp
Rick Williams
Bill Wood
Bob Kerr
Les Jenks
Feroz Ghouse
Greg A. Miller
Bob Selbrede
Jim Brooker
Hugh Barker
Duane Fruechte
Karl L. Olberg
Joe Mezers
Dick Konrad
Arby Boomer
Ralph Jahimiak
Walter Altus
Bruce Bjerstedt
Gary Webb
Phil Uehling
Nook Bentzen
Dallas C. Miller
Charles A. Ferries
Fred Sorenson
Jule Kish
Steve Pavela
John Young
Scott Neader
Mike Tessmer
Karl Simonson
Dean Summers
Art Osborn
Ray Wakeen
Van Elston
Jack Yoshizumi
Dick Kleppe

WA9IZY
KA9UUK
KE9PL
N9JFI
KV9U
WB9VYL
W9TXN
W9AKY
N9FJL
KA9FOZ
KA9EZR
N9DBK
KAØEJZ
W9HWQ
W4ST
WA9SOQ
K9DXO
WF9T
WA9OAE
WD9GCR
K9CUT
N19V
W9UP
K9EGO
K9LEC
W9TCW
NØHRN
KA9UJL
KA9TSW
W9KAZ
KA9FOX
NØBSH/9
KB9EQI
KQØC
WØJDC
WA9HHM
WA9FIO
W9KTD
KØKTP



HERE and THERE

MADISON ADOPTS ANTENNA ORDINANCE: According to the very limited information we have, the City of Madison has adopted an antenna ordinance. We believe the height limit for antennas was set at 50 feet. We have no other information, such as whether any exemptions were made, what procedures must be followed if a height exemption is wanted, or if current antennas exceeding that height were "grandfathered," or if they must be lowered to meet the 50-foot requirement.

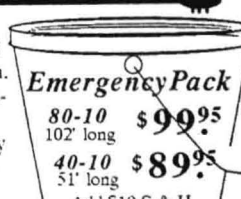
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AROUND IT GOES: One of the stories about how Radio Amateurs came to be also known as "Hams" is making the rounds again; there are several such stories that surface every now and then. While they all seem to make a certain degree of sense, not one of them has been proven to be the real origin of the term "Ham"; I believe QST published a story to that effect a few years ago. One story has to do with operators' initials; another with a bad sender supposedly using a ham to send code, rather than his hand. It's doubtful that we'll ever be sure just where "Ham" - for Amateur Radio operator - originated.

- K9ZZ

QRV Antenna EmergencyPacks

EmergencyPacks contain QRV All Band kink-proof wx-sealed multi-band Dipole-V-Sloper antenna. 70' coax feedline. Quick Launch system. rotproof dacron support braid. 40 p Tech Manual. Complete. Ready for Action. One person installs in 15 minutes. Infopack \$1 by 1st class mail.



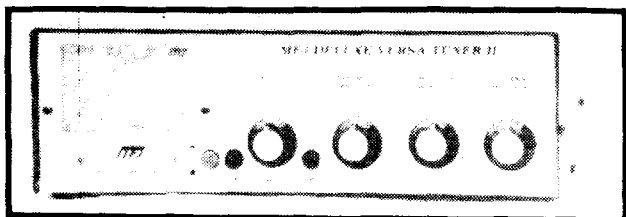
Fastest Antennas in the West

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AntennasWest

(801) 373-8425

New Products



MFJ-948 DELUXE ANTENNA TUNER

MFJ Enterprises, Inc., the world's leading manufacturer of antenna tuners, announces the release of the new MFJ-948 300 watt Deluxe Antenna Tuner, priced at only \$129.95.

The MFJ-948 is a 300 watt tuner that tunes out SWR for maximum power transfer to verticals, dipoles, inverted vees, beams, quads, mobile whips fed by coax, balanced lines, or single wire - virtually any HF antenna. It covers 1.8 to 30 MHz, and is made in the U.S.A.

It features MFJ's lighted peak reading Cross-needle SWR/Wattmeter, with an on/off switch for the meter lamp. It also reads average power. This large meter shows you SWR, forward and reflected power at a single glance. It reads power on two scales - 20 or 200 watts. Three front panel meter switches let you select peak or average power, hi or low power scales, and meter lamp on or off. The lamp uses 12 VDC or 110 VAC with MFJ-1312, \$12.95.

A 6 position antenna switch lets you select two coax lines (direct or through tuner), random wire, balanced line, and external dummy load. a 4:1 balun makes it easy to hook up balanced line antennas.

You also get MFJ's unmatched one full year No Matter What™ guarantee. That means MFJ will repair or replace (at our option) your MFJ tuner, no matter what happens to it for a full year.

For more information, or to order, contact any MFJ dealer, or MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762, or call (601) 323-5869; FAX: (601) 323-6551; Telex: (601) 323-6551, or order toll-free at (800) 647-1800.

- MFJ news release

ICOM PS-70 HANDHELD POWER SUPPLY

ICOM proudly announces the new PS-70 2 amp handheld power supply, the one accessory everyone has been waiting for! Just plug the PS-70 into your 110V wall socket, attach your favorite ICOM handy talky, and continue to QSO with your friend. The PS-70 will even charge your batteries, if you have an IC-O2AT/O3AT/O4AT/12AT, or an IC-32AT.

The PS-70 will work on these ICOM handhelds: IC-O2AT/O3AT/O4AT/12AT or IC-2GAT/4GAT/12GAT/32AT with AD12 or IC-u2AT/u4AT with DC-25.

The new PS-70 power supply is currently available. The suggested retail price

is \$89.00.

For a brochure or catalog on ICOM products, please call the ICOM Brochure Hotline at (800) 999-9877.

- ICOM news release

ICOM IC-229A/H 144 MHz FM MOBILE TRANSCEIVER

ICOM proudly announces the new IC-229A/H 2-meter mobile transceiver. With the ICOM IC-229A/H, you can go mobile in safety and style. Covering transmit frequencies of 140-150 MHz, and receive frequencies of 136-174 MHz, the 229A/H is designed to answer all your 2-meter mobile needs.

* **HIGH OUTPUT POWER:** No problem being heard. The IC-229H has a full 50

watts of output power, while the IC-229A supplies a complete 25 watts output power.

* **ULTRA COMPACT:** ICOM's advanced IC-229A mobile transceiver is small enough to fit anywhere in your vehicle. The transceiver measures just 5.5"W x 1.6"H x 4.1"D. The high power IC-229H measures only two inches deeper. A mobile transceiver that small is unbelievable!

* **SIMPLE OPERATION:** Well designed and illuminated controls offer operating versatility during night-time operation. With the new HM-56 microphone, you can transmit up to 22-digit telephone numbers using the 14 DTMF memory channels, ideal for autopatching and repeater control while driving.

* **20 MEMORY CHANNELS:** All mem-

(Please turn to page 14)

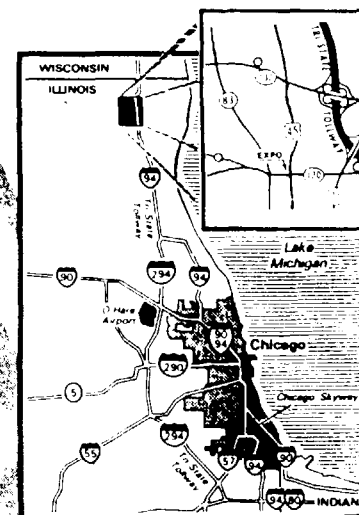
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Morse Telegraph Club News

"MW" CHAPTER MEETS

The "MW" Chapter of the Morse Telegraph Club met at the Mid Continent Railway Museum, North Freedom, Wis., April 28, to honor S.F.B. Morse's birthday. 24 members and guests were present, and enjoyed a very good get-together and luncheon at the Railroad Cafe.

As reported last year, Western Union no longer furnishes the International Club with a "round robin" wire, connecting all the chapters in the United States and Canada. Several MTC members in Illinois, including our president, Bill Dunbar, AD9E, and Sid Vaughn, NØDJD, of the "MW" Chapter, have been working on a dial-up modem to call any chapter headquarters at will, without having to wait until the common wire was clear when Western Union furnished the wire. This has proved quite successful.

One system uses the old Western Union originate-only modems, which they gave us at the termination of the wire last year. This, combined with a Radio Shack DCM-6 modem with answer/originate, works very well. Sid Vaughn uses a Radio Shack speakerphone, into which he has built a tone oscillator and decoder. These work well together.

Yet another version was built by Ace Holman of the Pennsylvania Chapter, which uses polarized relays. To solve the problem of incompatibility between methods, most chapters have either two or all three types.

In the opinion of most members, they liked this system as well as or better than the WU wire. Contacts were made with chapters in Kansas City, MO; Olympia and Seattle, WA; Florida; Pennsylvania; New Jersey; The Speedwell Iron Works (where Morse and Vail developed the telegraph equipment); and Morse's home in Poughkeepsie, NY, on the Hudson; and, last but not least, a member in Fairbanks, Alaska.

MORSE SPECIAL EVENT STATION AD9E

Special Event Station AD9E, sponsored by the Grand Chapter, Morse Telegraph Club, was held at North Freedom, operating Saturday and Sunday, May 26 and 27. Bands used were 40, 30, and 15. Conditions were not the best, and there was also some "competition" from the prefix contest. We gave in to the prefix hunters on Sunday afternoon; K9ZZ worked about a dozen "prefixers," who could not resist that special AD9 prefix. Bill Dunbar did get quite a kick out of working AD6E in California.

All had a good time, and we did get one beautiful day on Sunday - a nice change from all the mucky weather lately.

Participating were Bill Dunbar, AD9E; Sid Vaughn, NØDJD; Larry Moe, KØSIA; Fred Becker, W9KKM; Bob King, KA9GNY; and Jim Romelfanger, K9ZZ.

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(Wisconsin orders add 5% sales tax.)

A change in the schedule to get away from the contest QRM is being considered for next year: the operation may be on Monday, Memorial Day. Schedules will probably be published in March QST and CQ magazines.

- Bob King, KA9GNY
411 Lynn Ave., Baraboo, WI 53913

More on Scanner Laws

The American Radio Relay League has submitted to FCC reply comments supporting preemption of local and state laws regulating the use of mobile radios by licensed Radio Amateurs. In its May 31 comments, the League pointed out several comments filed in the proceeding that buttressed the League's position.

The League contends that possession by licensed amateurs of radio receivers that incidentally cover public safety frequencies should not be prohibited by local or state laws. This, the League pointed out, is supported by the Associated Public Safety Communications Officers (APCO), "the nation's oldest and largest public safety communications organization."

Comments filed by Uniden America Corporation noted that all radio communications are interstate, and as such the state and local laws which prohibit the possession of radio receivers by licensed amateurs interfere with "instrumentalities of interstate commerce," which should not be permitted.

The League requested that "the Commission determine that statutes or local ordinances which preclude the possession of radio equipment by licensed Radio Amateurs merely because such equipment is capable of reception of police or other public service communications conflict with Federal communications law and policy, and are therefore void."

- The ARRL Letter, 6/15/90

JANUARY 4, 1983

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New Products

ICOM IC-970A/H ALL MODE MULTI-BAND TRANSCEIVER

ICOM announces the availability of the new IC-970A/H all mode, multi-band transceiver. Designed for the serious operator on 144, 440, and 1200 MHz, the IC-970A/H provides the most futuristic technology for DX, digital, and satellite communications.

25 Watts or 45 Watts: Take your pick, the IC-970A provides a complete 25 watts power output, while the IC-970H high power version provides a full 45 watts power output.

Versatile Communications: The IC-970A/H comes fully equipped as an all mode dual bander for 144 MHz and 440 MHz. Operate the 1200 MHz band by installing the optional UX-97 band unit, or listen to what's happening in the world with the UX-R96 wide band receiver unit, receiving 50 - 905 MHz continuously.

Dual Band Watch: Capable of receiving both main and sub band audio simultaneously. Multiple scanning systems also function concurrently on the main and sub bands.

Reach Beyond the Stars: Communications via satellite has never been so easy. This amazing transceiver automatically tracks uplink and downlink frequencies when the tuning control is rotated. Ten memory channels specially designed for quick satellite communications emphasize ICOM's total commitment to your future communication needs.

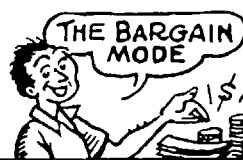
Progressive Quality Throughout: ICOM's extra large multi-function display is easy to read, providing complete main and sub band information. Ninety-nine memory channels per band store operating frequencies, modes, and repeater information.

A built-in pager and code squelch function, plus direct keyboard entry and ICOM's CI-V system are just a few additional IC-970A/H features that will propel you into the 21st century.

Backed by a full one year warranty and four North American regional service centers, you'll see why the IC-970A/H is the transceiver of a new generation! The IC-970A/H will be available in July, 1990. Suggested retail price for the IC-970A is \$2,895.00. Suggested retail price for the IC-970H is \$3,149.00.

For a brochure on the IC970A/H, or any other ICOM product, please call our toll-free brochure hotline: 1-800-999-9877.

- ICOM news release



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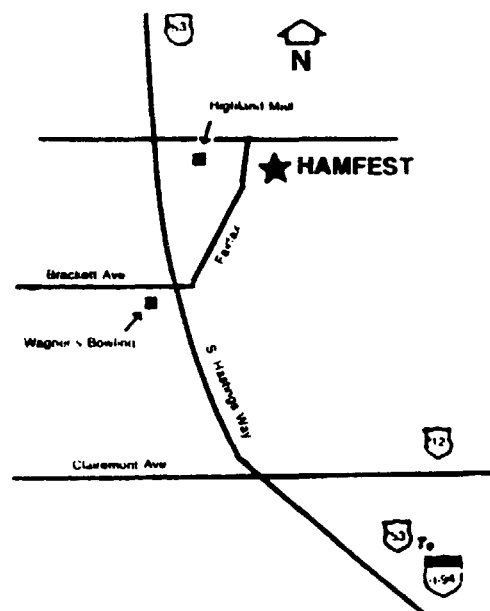
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New Products

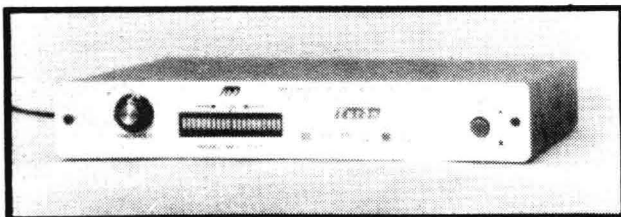
(Continued from page 11)

ory channels store operating, offset, and subaudible tone frequencies, plus duplex shift direction. An independent call channel is built in for memorizing your most often used frequency.

The IC-229A/H includes optional advanced features, such as the UT-55 DTMF encoder/decoder unit, and the UT-50 tone squelch unit for beep and tone squelch functions.

The IC-229A/H will be available in July, 1990. The suggested retail price for the IC-229A is \$449.00; suggested retail price for the high power IC-229H is \$479.00. For brochures on ICOM products, please call the ICOM Brochure Hotline at (800) 999-9877.

- ICOM news release



MFJ-1278T TURBO MULTI-MODE DATA CONTROLLER

MFJ Enterprises, Inc. announces the release of the new MFJ-1278T Turbo Multi-Mode Data Controller. The MFJ-1278T is Amateur Radio's first multi-mode ever with a high-speed 2400 baud modem built in. It retails for only \$359.95.

The MFJ-1278T Turbo gives you fast 2400 baud packet. By communicating faster, you'll reduce chances for errors during transmission, lessen congestion at crowded times and/or channels, and more efficiently utilize our ham frequencies.

You'll also get 1200/300 baud for full compatibility with older TNCs.

The MFJ-1278T gives you all 9 digital modes. It lets you transmit and receive Packet, AMTOR, RTTY, ASCII, CW, FAX (including multi-grey level wire photos and weather maps, as well as other FAX modes), SSTV, and Contest Memory Keyer. You also get Navtex reception.

The MFJ-1278T also gives you a built-in dedicated printer port, Easy Mail™ personal mailbox, 20 LED precision tuning indicator, Multi-Grey Level FAX/SSTV Modes, 32K RAM, AC power supply, Host Mode that lets MFJ1278T serve as a KISS interface or dumb modem, fast throughput anti-collision technology, independent transmit level adjustment for each radio port, random code generator, lithium battery backup, RS-232 and TTL serial ports, standard 850 Hz RTTY shift, socketed ICs, tune up command, peripheral I/O port, automatic incrementing serial numbering, programmable message memories, dual radio ports (each HF or VHF), CW key paddle jack, speaker jack that lets you monitor

CW sidetone, packet connect bell and transmit/receive audio, new fully integrated instruction manual, and a new Fast Start™ booklet.

The new MFJ-1278T comes with MFJ's one year unconditional guarantee.

The MFJ-1278 (without the new high speed modem) remains available for \$279.95. In addition, the new 2400 baud modem can be purchased separately (MFJ-2400, \$79.95) and installed in any MFJ and most other TNCs.

For more information, or to order, contact any MFJ dealer, or MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762, or call (601) 323-5869; FAX (601) 323-6551; TELEX 53 4590 MFJ STKV; or order toll-free at (800) 647-1800.

- MFJ news release

ICOM IC-3220A/H DUAL BAND MOBILE TRANSCEIVER

ICOM proudly announces the new IC-3220A/H dual band FM mobile transceiver. One of the smallest dual band transceivers, the IC-3220H boosts a full 45 watts output power on 144 MHz, and 35 watts output power on 440 MHz. The IC-3220A version sports a complete 25 watts on both bands. The compact design of the IC-3220A/H is perfect for going mobile anywhere!

* **COMPACT AND SIMPLE:** The IC-3220A/H measures only 5.5"W x 1.6"H x 7.7"D. So compact, yet so simple to operate! Every function is immediately accessible at the touch of a button, with illuminated controls to give you complete operating versatility at night.

* **36 MEMORY CHANNELS:** Store all your needed frequencies in the 36 convenient memory channels, 18 channels for each band. The two call channels and two scan edge channels are handy, too. The new HM-56 hand microphone is an added bonus, with 14 DTMF memory channels convenient for autopatching.

* **SIMULTANEOUS OPERATION:** Enjoy dual band operation. In addition to full duplex telephone-style QSOs, the transceiver receives both MAIN and SUB band signals simultaneously.

* **BUILT-IN DUPLEXER:** Provides easy dual band antenna connection. No need to buy two antennas!

The IC-3220A/H also includes cross-band repeat capability, memory transfer, memory split, and a variety of scan functions. Options available for the IC-3220A/H include the UT-50 tone squelch unit, and the UT-55 DTMF tone encoder/decoder unit.

The IC-3220A/H will be available in July, 1990. To order a brochure on the new IC-3220A/H, call the ICOM Brochure Hotline at (800) 999-9877. Suggested retail price for the IC-3220A is \$659.00. Suggested retail price for the IC-3220H is \$699.00.

- ICOM news release

Northern Wisconsin Radio Club

—Since 1923—



Steve Kraft, KE9RW
Secretary
Rt. 7, Box 62
Menomonie, WI. 54751

Greetings, members and followers of NWRC, from President Steve, KA9OMC. Steve, KE9RW, is on vacation this week, so I will fill you in on the latest activities.

The NWRC renewed its affiliation with the American Radio Relay League on May 29, after being listed as inactive for 17 years. As a result of affiliation, the officers were able to apply for the club liability insurance offered by ARRL. We have been accepted, and the policy will be in effect for Field Day.

If you are looking to renew your ARRL membership, or if you are going to become a new member of ARRL, the NWRC can get \$2 for a renewal, and \$5 for a new member. In order for NWRC to benefit from these credits, you must renew through NWRC, as ARRL will not refund us the money. Our officers have the necessary information, and can fill you in on the additional benefits of ARRL affiliation.

The officers decided it would be a good idea to have a table at the Eau Claire Hamfest July 14, to allow members to review their status. Stop by and visit us.

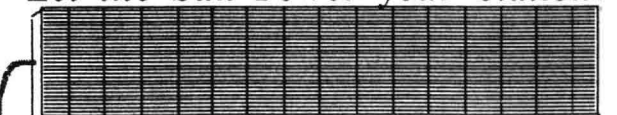
NWRC notes some local amateur activities:

* On June 13, the N9HNI 146.205/805 repeater held a pig roast to celebrate the installation of the repeater. Thanks to Bill and the 805 gang for a nice day.

* Dunn County ARES worked through the June 12 severe weather disaster that caused the most extensive damage to the area since the 1958 tornado. Special thanks to our new Emergency Coordinator, Jim, NX9F, and son Mike, N9GQU, for activating the county emergency services station; Steve, KE9RW, for a marathon net control session; Ron, WB9WKO, and Jody, KA9YEB, for checking health and welfare in and around the Knapp area; and Tom, WF9I, for handling Red Cross traffic. Many hams worked through this SkyWarn session, including Kenny, KE9CS, on bridge-outs around Colfax. Thanks to all!!

Steve Hart, KA9OMC, President

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Handicapped Amateurs Can Upgrade Without Code!

Handicapped hams holding at least a Novice Class license, or other handicapped individuals who can pass the Novice 5 word per minute Morse Code test will soon be permitted to upgrade without taking higher speed tests. The FCC announced a new policy that 13 and 20 WPM code tests will be waived for handicapped individuals who can prove that their physical disability precludes them from copying the International Morse Code at speeds above 5 words per minute.

To obtain a waiver, an applicant must first successfully pass a Novice examination, including the 5 word per minute Morse test; upgrading to Technician will still be by the traditional route of passing Element 3A. But, when handicapped individuals decide to go for the General or higher class licenses, they will be permitted to submit forms signed by their doctors, along with accompanying certification, to the VEC administering a test session, in lieu of taking a 13 or 20 word per minute code test. The applicant will then take any written examination elements of his choice. The VE team will grade the written exam, and send the results, along with the waiver documentation, to the supervising VEC. In turn, the VEC will send the paperwork on to the Commission. The final determination of whether a waiver will be granted or denied will be the decision of the FCC.

While technically effective as of June 15, the VECs who are required to handle the paperwork say that they are not ready at this time to do so. The announcement of this procedural change came to them without warning, and most indicate that it will be at least the middle of July before any of them have explicit information on how to handle these applications. The VECs are, therefore, asking handicapped candidates to please wait about 3 more weeks before applying for waived test credit.

The decision by the FCC to grant CW credit waivers comes as a result of a number of requests from handicapped applicants who have claimed that code testing is discriminatory against them. One of the most outspoken on this issue is Peyton L. Moncure, of Clif-

FCC Says: The Novice has to Go, Unless . . .

The Novice Class license has to go, because the Federal Communications Commission believes that 30% of those getting tickets are cheating to get them! Moreover, it was the nation's VECs who convinced the Commission that this high level of cheating is taking place. This information became public during the question and answer period at the FCC's forum at the 1990 ARRL National Convention in Kansas City, Missouri, on June 9.

During the session, Bill Pasternak, WA6ITF, of the Amateur Radio Newslne, asked FCC Special Services Division Chief Ralph Haller, W4RH, about the rumor that the Commission wanted to discontinue issuing Novice tickets because of the alleged cheating. He wanted to know why, if the problem were so pervasive, that only two cases had been prosecuted. Haller responded, "We have a resource (money) problem. We have only one attorney dealing with all amateur enforcement, and that necessarily means that he has to devote most of his time to the more egregious cases, like the one in Puerto Rico. That is just one of the issues."

Haller then asked Personal Radio Branch Chief John B. Johnston, W3BE, to elaborate further: "We believed this (would happen), and the League anticipated this too, when the phone privileges were added which made it (the Novice) a more desirable license. Back when you only had CW privileges, there wasn't a lot of incentive to cheat. You had to know CW to use the privileges, and you had to answer those questions to even get on the air. And, I think for most people, actually getting on the air was a bigger challenge than passing the test."


(Continued on page 16)

ton, Virginia. Moncure is at least partially responsible for the FCC decision in this matter. He suffers from an impairment that hinders his ability to write longhand or use a CW key, although he can type on a word processor. Moncure challenged the FCC's Morse testing requirements by claiming that they violated his civil rights and those of other handicapped applicants. Last year, Moncure took the matter to the Department of Justice. The DOJ agreed that the FCC had not acted properly on Moncure's complaint by telling him that the CW requirement was by international treaty with the International Telecommunications Union, and directing him to the Handi-Ham organization. In December, Moncure filed an International Human Rights Complaint with the United Nations High Command on Human Rights against the ITU. He also wrote to President George Bush, demanding legislative change.

It now appears that his work has had a major impact on the Amateur Radio licensing structure in the United States. It is unknown if Moncure and other handicapped rights activists will be content with the concessions made by the FCC to permit code-free upgrading, or if litigation aimed at deleting all CW requirements for all license classes, including the Novice, will be undertaken, as Moncure threatened last year. It is also unknown if the ITU will act in a manner similar to that of the FCC, making this a world-wide waiver.

- Westlink Report, June 22, 1990

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FCC Says: The Novice has to Go, Unless . . .

(Continued from page 15)

"That changed when phone privileges were added, and it made the incentive to cheat go up. The League did anticipate this, and said to go with two examiners rather than one, which is a good idea. But, you still had the basic weakness (of not knowing) what really is legitimate, and, it all rests on their signatures. We have had George Washington, Abraham Lincoln, and a few other people (like that) give exams, so we started to run some samples. And, frankly, the samples are turning up more cases than we can handle. So, we have actually had to cut back on the samples and (as a result) we have also lost some of the (cases due to restraints imposed by the) statute of limitations. But we are going after them as much as we can.

"We brought this up to the VEC Conference last year, and although the VECs are not directly involved in the Novice (testing) program, they are on the front line of examining. We said that we thought the problem, from our standpoint, was about 1% cheating, but that's still about 200 cases a year."

It was here that Johnston made known that it was the VECs who convinced him and the Commission that cheating to obtain Novice licenses was far higher than they had thought: "They said that they thought this was just the tip of the iceberg, that the cheating rate was probably closer to 30%! So, I think it's time that we look for solutions to that, if indeed that is correct, though we have no reason to doubt it."

Following up, Pasternak asked Johnston if the FCC would consider retaining the Novice if the VECs were willing to bring the exam under the supervised volunteer testing system, at no cost to the applicant, in accord with Public Law PL-257. Johnston indicated that this would be acceptable to the FCC: "Yes, I don't think we care (how it's done). The thing you are working with was when Senator Barry Goldwater got the volunteer system through Congress - the VEC reimbursement legislation - at the time he introduced it, he said, 'No fees for the Novice.' He did not think that the Novice should (carry a testing) charge.... That was the reason that there was no fee for the Novice."

"At the present time, many of the VECs already offer Novice testing. It's really not part of the VEC (operation) itself, but they are running sessions, so they do give the Novice exams. And, many of the groups do not charge. I know that, in our area, Laurel VEC does not charge. That's strictly up to them."

This was the FCC's only comment on PR Docket 90-55, and from the careful phraseology used, was meant to avoid any violation of regulations regarding ex-parte communications on matters under FCC consideration.

(Answers transcribed and abridged

from recording supplied by the Amateur Radio Newsline.)

- KC9RP, W9JUG, and W5YI in Westlink Report, 6/22/90

VECs TO FCC: WE'LL FUND THE NOVICE; YOU KILL THE ADVANCED

Thirteen of the nation's leading Volunteer Examination Coordinators, meeting Friday, June 15th in Gettysburg, PA, have told the FCC that they will voluntarily perform Novice testing - and without charge for the time being - under the VEC program. The VECs agreed with the majority of the Amateur Radio community that retaining the Novice Class is imperative to the orderly growth of the United States' Amateur Radio Service. In lieu of a phase-out of the Novice and Technician class licenses, the VECs have strongly suggested to the FCC that the current Advanced Class be phased out of existence through the same form of static "grandfathering" as was proposed by the FCC for the elimination of both the current Novice and Technician classes. Static grandfathering means that issuance of new licenses for a particular license class are stopped, but those having that license are retained in file and permitted to renew. Only on their upgrading or the lapsing of that license is it terminated.

The offer of the nation's VECs to assume all Novice testing, with or without remuneration, can be best viewed as a trade-off with the FCC to keep the Novice Class as a viable second step in the ladder of amateur licensing. The FCC has made public its belief that that at least 30% of those obtaining Novice licenses are doing so deceitfully. Since Public Law PL-259 precludes the collection of fees for the Novice examination, in its issuance of PR Docket 90-55, the FCC included a demand that the availability of Novice licenses be terminated, and replaced entirely by the Communicator, which would fall under the purview of the VEC testing system.

Most observers expect a Report and Order to be released early in 1991, probably to be announced at the 1991 Dayton HamVention FCC Forum, if not sooner.

- Excerpted from KC9RP, W9JUG, and W5YI in Westlink Report, June 22, 1990

TAYLOR COUNTY AREA AMATEUR RADIO CLUB

Rolland Walty, W9LEE
Secretary
W. 4117 Hwy. 102
Westboro, WI 54490

At press time, no information had been received for publication from the club.

FCC Enforcement Actions

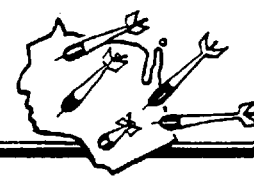
* On April 26, the Federal Communications Commission (FCC) seized four illegal CB linear amplifiers valued at over \$1000 from R.H. Electronics of Magalia, CA. The store is owned by Ray Hanson, W7KMM. The marketing, manufacture, and use of illegal radio equipment violates Section 302(b) of the Communications Act of 1934, as amended, and carries potential criminal penalties. (FCC Public Notice, May 14, 1990.)

* Sue Swanson, of Lago Vista, Texas, has been fined \$1000 for illegally operating on 27.970 MHz, a frequency allocated to the U.S. Government for fixed and mobile operation. (FCC Public Notice, May 11, 1990.)

* On April 24, U.S. Marshals, with assistance from the FCC's New York office, seized 27 pieces of radio equipment belonging to Dwayne Mayo, of Jamaica, New York, after he did not respond to FCC directives to stop operating his CB equipment until television interference could be eliminated. The FCC's New York office told ARRL that "the seizure took place under Federal civil forfeiture provisions which were initiated by the U.S. Attorney for the Eastern District of New York."

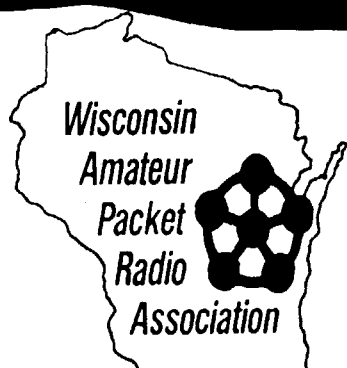
The FCC received letters from 30 area residents, who complained that Mayo's illegal CB transmissions caused interference to their televisions and telephones. After several FCC letters to Mayo went unheeded, the FCC fined him \$1600 for unauthorized CB operations. (FCC News Release, May 11, 1990.)

- The ARRL Letter, 6/1/90



HERE and THERE

WE'D LIKE TO REMIND OUR READERS that BSSS is always interested in articles and photos of any kind about Ham Radio. Lots of clubs and groups are doing some unique things; sharing that info with our readers publicizes your club's or group's interesting activities, and it may very well help other such clubs or groups with their projects. A few such activities would include: (1) Special Event Station operations, with a prior announcement of dates, times, frequencies, what the event is, and QSL info and, afterward, a summary (with photos, if possible); (2) communications trucks or trailers (photos, too!); (3) Ham Radio with hot air ballooning; (4) Club homebrew nights, with photos of the winner(s). We're depending on YOU for news! Send your items to Jim Romelfanger, K9ZZ, 412 1/2 Ash St., Baraboo, WI 53913. Photos are not normally returned. Due to time limits, we usually don't send acknowledgements.



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

c/o CARL SCHUMACHER, N9BYS
7740 EVERGREEN TERRACE
BURLINGTON, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

W.A.P.R. Meeting & Elections

The annual W.A.P.R. meeting and elections of officers will be held at the South Milwaukee swapfest on July 7, 1990 at 10:30 am. Hope to see all of you there.

Roy - WA9KEC, Vice Chairman - WAPR

Wisconsin Packeteer News and Articles Wanted

Its time for that obligatory request for articles from your newsletter editor. Let me say that without submissions of your local news items, meeting reports and just plain good 'ol packet gossip, the "Packeteer" tends to read like an out of town newspaper. Many of you are involved in or hear interesting news on the local level that is of interest to other packet operators throughout the state.

Get the news out! Take a minute and drop the news to me and I'll see it gets wide exposure not only to the regular packet crowd, but to the hundreds of potential packeteers that read Badger State Smoke Signals!

73 de Steve - WB9ZRE @ KC9BK

MFJ-1278 Receiving Problem Identified

A receiving problem plaguing a few MFJ-1278 TNCs has been identified. The problem manifests itself after the TNC has not received data for an extended period of time. Following the extended time period, the TNC will refuse to accept legitimate data sent to it. The cause of the problem is a batch of off-spec XR 2211 demodulator chips that were sent to MFJ. MFJ is aware of the problem and a call to their service department will speed a good chip to owners experiencing this problem.

Lan-Link Support Group

Doug - WA6IEL has been using the Lan-Link program for several years and is establishing a Lan-Link users group at N9GTM-BBS. Doug will act as a clearing house for Lan-Link operators who have questions as well as hints, kinks and answers for users of this powerful program.

I have been using Lan-Link for several years, and may be able to help some of you who are having a problem understanding the manual. If I can't maybe other users will see the question when you post it and they will have an answer for you.

For compuserve users, Doug can be reached at 72627,2203.

Tandy 102/200 PBBS

Larry - KB9DIP has a Tandy 102/200 PBBS program on his landline bulletin board. The 24 hour FidoNet BBS telephone number is (708) 394-0071 with a USR HST/DS modem. The address is 1:115/108. The PBBS filename, which is 'file requestable' is PBBS31.ZIP. While the PBBS has limited capabilities, for it's size, it works fine.

WORLI BBS Invaded by Hackers

Hank - WORLI has had his bulletin board invaded by hackers. The latest example of hacker intrusion is a bulletin entitled "Holding Mail" inserted as message number 4359 @ WORLI. The number as inserted was much higher than the legitimate messages on his system, thereby leading off user listings and preventing subsequent listings below 4359 from being listed!

Packet Balloon Flight Postponed

The packet helium balloon flight scheduled for June 24, 1990 sponsored by the Genesee County ARES (Michigan) was postponed due to weather and equipment problems. The flight is expected to be launched in the near future. Please monitor your local BBS for further updates.

TAPR TNC1 DCD Modification Problems

A problem identified in the TAPR XR 2211 DCD upgrade board allows the TNC to transmit while the DCD LED is lit. This results in crashing incoming packets as the TNC is sending an acknowledgement for the previous packet. All component voltages and board traces check out. TAPR has been made aware of the problem, and any packeteer experiencing the problem or has an idea as to the cause is requested to contact TAPR via Bill - KB6CYS @ WB6YMH.

PK-88 Problems

While it is not unusual for manuals to have an occasional typographical error, AEA's manual for the PK-88 contains two errors which can prevent users from using their TNC. The first error is found in the manual's Preface on the page titled "Getting Started With the PK-88". In the paragraph entitled "Note to PC-PAKRAIT Users" the file name PCPAKRA87.CFG is incorrect. It

should read PCPAKR87.CFG (note the second A is incorrect). The second error is found in the wiring table in Appendix E. The wiring for pins 2 and 3 are reversed and the unit will not operate as wired in Appendix E. Instead, refer to the wiring diagram in Section 2.2 for the correct wiring hook-up for the TNC end of the cable.

In addition to the two 'typos' in the manual, a hardware design problem with the rear panel RS-232 and RX In mini-jack result in an extremely tight fit when the respective connectors are connected to the PK-88. This condition could result in damage to the mini-jack plug due to lateral pressure from the RS-232 connector.

Tandy WP-2 and Packet Radio

Tandy has something on the market for the packet radio operator that has revolutionized the portable packet station..NO.. It's not the model 100 or the 200 that we are all familiar with. It's the model WP-2 Word Processor. I bought one in Dayton, not knowing exactly what I was buying, but when I saw that it had a built in Telcom program, and the RS-232 port as well as a printer, and an external drive port which also accepts a cassette recorder. The WP-2 also has a memory expansion port as well as capabilities to expand the memory internally.

I took a chance not knowing what was in front of me. The WP-2 also has a built in Thesaurus as well as an extensive Dictionary, Calendar, Spelling checker, and capabilities to change files to Ascii, which allows you to transfer files to your desktop computer. The screen is superior to the model 100 and 200, and it handles 80 columns by 8 lines.. no more 40 columns. It's one inch thick, and it weighs as much as a notebook. The WP-2 with a handy talkie and a low current TNC puts a real portable station at your fingertips.

The WP-2 is expensive you can see the price in the latest R. Shack catalog, (last page). It uses the same disk drive as the model 100, and 200. This is not a product endorsement by any means, but it is a recommendation. After setting the parameters on the Telcom program and connecting the Pac-Com TNC to it, it was all set copying packet in a few minutes. Power consumption is 200 Ma.

At the Dayton Hamvention I only saw one used Heathkit PK-232, almost no 2 meter mobile radios. Well somebody must be on Packet out there. What happened to all the used 2 meter rigs?

de KD2EJ

"Smoked" Equipment.....

This article is not about equipment that has been destroyed, rather, it is about equipment that is in the needless process of being destroyed. Most owners of computer equipment and certainly every 'Ham' knows that lightning strikes and power line surges are hazardous to their equipment, however, few realize that the warnings by the Surgeon General of the United States apply to electronic equipment as well - Smoking is hazardous to your equipment's health!

While smoking will not cause birth defects, high blood pressure, or emphysema in electronic equipment, it can and will reduce the Mean Time Between Failure (MTBF) of all electronic equipment it comes in contact with. The failure rate on equipment exposed to smoke can be greater than five times that of equipment in a smoke-free atmosphere. As electronic components become smaller and placed in denser concentrations on printed circuit boards, susceptibility to smoke induced failure increases dramatically.

It is easy to understand this danger to electronic equipment when smoke is broken down into it's primary parts - microscopic carbon particles, tar, nicotine and carbon dioxide. While carbon dioxide does not cause adverse affects to electronic components in levels found at smoking concentrations, the other three components take a direct approach at reducing an electronic device to the role of an overpriced paperweight. Carbon particles are abrasive and electrically conductive, capable of premature wear to moving surfaces and changing the path of electronic signals and voltages on the printed circuit board when concentrations become high enough. Tar and nicotine are sticky substances that adhere to just about anything they contact. Smoke is drawn thru equipment by convection or forced thru by a cooling fan. Tar and nicotine particles glue themselves to printed circuit boards, electronic components, cooling fan blades and equipment grillwork. The highly abrasive, highly conductive carbon particles become imbedded in the sticky tar and nicotine and are covered by additional tar and nicotine, resulting in built-up layers. Through time and smoke exposure, the carbon particles will form continuous 'bridges' between incompatible components on the printed circuit board, allowing signals or voltages to pass thru these undesired paths resulting in device failure, often without any outward signs of the specific failure location, and sometimes in a dramatic and spectacular Fourth of July type of display.

Smoke is not confined to damaging electrical components. As stated above, smoke components form an abrasive medium which can cause excessive wear on components such as floppy disk drive read/write heads and motor bearings in cooling fans. In addition to abrasion, smoke particles accumulating on fan blades and grillwork trap additional particles of dust, constricting air-flow and allowing heat to build up in the device. (While hard drives are hermetically sealed from outside contamination, overheating remains one of the major causes of hard disk failure!).

The best defense against smoke contamination is, naturally, prevention. Avoid smoking around all electronic equipment, including in adjacent rooms when energized equipment utilizes cooling

fans. This will pose a serious challenge to 'hard-core' smokers, but, can pay off in the long run by increasing life expectancy for equipment (as well as the user). As the saying goes..... "its not a matter of 'if', its a matter of 'when'!"

Steve - WB9ZRE in "Foftales"

Tiny Terminal Program.....

I have been interested in writing some software to interact with my PK 232, and as a first step decided to write a simple terminal emulator in interpreted basic to see how it worked. I was surprised that it could be done in such a small program, so I am sending it out as a example to possibly stimulate some thinking.

It is not very complete, or necessarily fully debugged, but it works well enough to create this message. Feel free to use, and especially to modify, this. The only condition is that if you "fix" it so it doesn't work, don't blame me! Note that you should start basic with the "/c:1024" parameter to have it work right. The entire program follows:

```
10 KEY OFF:CLS:LOCATE 1,1,1:COLOR 10,0
20 OPEN "com1:1200,N,8,1,CD1000" AS #1
30 ON KEY(1) GSSUB 230:KEY(1) ON
40 ON COM(1) GOSUB 80:COM(1) ON
50 C$=INKEY$
60 IF C$<>" " THEN PRINT#1,C$;
70 GOTO 50
80 ' trap here on com
90 XPOS=POS(0):YPOS=CSRLIN
110 IF LOC(1)<1 AND STP=1 THEN PRINT#1,
    CHR$(17);:STP=0
120 RETURN
130 ' subroutine to break up multi-line chunks
140 IF STP<>1 THEN IF LEN(L$)>50 OR LOF(1)<700
    THEN PRINT#1,CHR$(19);:STP=1
150 BK=INSTR(L$,CHR$(13))
160 WHILE (BK<>0)
170   FIN$=LEFT$(L$,BK-1):L$=MID$(L$,BK+2)
180 PRINT FIN$
190 BK=INSTR(L$,CHR$(13))
200 WEND
210 PRINT L$;
220 RETURN
230 ' send file from fk1 trap
240 GOSUB 310 'pause input routine
250 COLOR 8,7:INPUT "Enter file to send>",$F$
260 PRINT#1,CHR$(17); 'resume input
270 OPEN $F$ FOR INPUT AS #2
280 WHILE (NOT EOF(2)):LINE INPUT#2,$F$:
    PRINT#1,$F$:WEND
290 COLOR 10,0
300 RETURN
310 PRINT#1,CHR$(19);:T=TIMER:
    WHILE TIMER<T+2:WEND:RETURN
    Andy - N6VRP
```

AM Station Tests Amateur Modes.....

On Sunday Morning, April 29th between 1:05 a.m. and 1:30 a.m. EDT (April 29th, 0505-0530 UTC) commercial AM radio station WHDH radio in Boston (850 khz, 50,000 watts) transmitted Slow Scan television, RTTY, PACKET and CW during a regular scheduled session of transmitter main-

tenance for the benefit of DX'ers. Slow Scan was sent in 8.5 sec black & white format, RTTY was sent at 170 Shift, 45 baud and CW was sent at five and 20 words per minute. Packet was sent at 300 and 1200 baud. These unusual transmissions were solely for the benefit of worldwide radio hobbyists searching for a DX confirmation.

Engineering Department, WHDH Radio, 441 Stuart Street, Boston, MA 02116

Fuses or Resistors ?

Watch out for a curious manifestation that has been noted in Fuji fuses. There have been reported cases of Fuji fuses turing into resistors when placed under load. The fuses will check out normal without a load applied and visually appear normal, however, when a load is applied, the fuses turn into resistors and can cause traneivers to shut down or operate in an erraticmanner. If you are experiencing symptoms as described above, check the fuse first.

More Facsimile Frequencies.....

Freq.	Agency	Location	Type
3.8525	Bucharest	Romania	WEFAX
4.247	RN Northwood	Great Britain	Mil
4.704	NATO	Spain	WEFAX
5.093	LZJ	Sofia, Bulgaria	WEFAX
5.785	Bracknell	Great Britain	WEFAX
6.210	USSR	Leninegrad	WEFAX
6.919	USSR	Kiev	WEFAX
6.946	CF	Vancouver	WEFAX
6.956	SYE	Nairobi, Kenya	WEFAX
7.530	US Coast Guard	Boston	Mil
7.535	AXI	Darwin	WEFAX
7.670	US Navy	Spain	Mil
8.055	FAP	Portugal	Mil
8.080	US Navy	Norfolk, VA	Mil
8.640	NATO	Spain	Mil
9.060	RTA	USSR	WEFAX
9.203	GFE	Bracknell	WEFAX
9.2415	TELAM Press	Buenos Aires	Press
9.280	Ruzu	USSR	WEFAX
9.3245	KYODO	Tokyo, Japan	Press
9.385	NATO	Spain	Mil
10.107	ATV	New Delhi	WEFAX
10.257	US Navy	Guam	Mil
10.335	NASA-METEOSAT	Houston, TX	WEFAX
10.570	ALMA ATA	USSR	WEFAX
10.966	US Navy	Subic Bay	Mil
12.175	Korean Center News	Pyongyang	Press
12.806	US Navy	Diego Garcia	Mil
12.828	TASS	Moscow	Press
13.366	PN-Monsanto	Portugal	WEFAX
13.368	Las Palmas	Canary Islands	WEFAX
13.527	CN	Deloto, Chile	Mil
14.436	Bracknell	Great Britain	WEFAX
14.826	US Navy	Norfolk, VA	Mil
15.785	UPI	New York, NY	Press
15.824	Associated Press	New York, NY	Press
15.878	China News Agency	Taipei, Taiwan	Press
16.025	BAF	Peking, China	WEFAX
16.270	Kyodo News	Japan	Press
16.335	FN	St.Denis-Reunion	Mil
16.938	Northwood	Great Britain	WEFAX
18.233	Delhi Meteo	New Delhi	WEFAX
18.710	RUNUS RSXX	USSR	WEFAX

Yellow Thunder Amateur Radio Club



K90DK
WB9FDZ

Art Kleefisch, W9WSS
Secretary
1014 5th Street
Baraboo, WI. 53913

Minutes of YTARC June 14th meeting.

The next meeting of the YTARC will be held on Monday, July, 10th, in room 14 of the Baraboo Civic Center. The meeting will start at 7:30 PM.

The June 14th 1990 meeting of the YTARC was called to order at 8:00 pm by Vice President Ken Johnson.

The following members were present:

Jim Decker, WB9UQT	Baraboo
Harry Mayland, K9FFT	Baraboo
Harry Westlund, K9EHK	Baraboo
Art Kleefisch, W9WSS	Baraboo
Ken Johnson, K9DZG	Mazomanie
Steve R. Schwegler, WB9RNL	Wisconsin Dells
Dennis F. Sweeney	Portage
Joe Sweeney, KB9ERR	Portage
Steven M. Steele, KB9ESD	Portage

The minutes of the May meeting were accepted as published in BSSS.

The Treasurers report was given as two dollars less than last month.

A station was set up at the Sauk County Fairgrounds for the Heritage Days Boy Scout Jamboree. The purpose of this set up was to allow the scouts to observe and visit an operating Amateur Radio Station. Phil Anderson, W9TP, Duane Grotophorst, KA9HKL, and Art Kleefisch, W9WSS, Cooperated with this exercise.

Jim Decker, WB9UQT, organized the Ham communications for the North Freedom Day parade.

The following helped with this communication project.

Jim Decker	WB9UQT
Duane Grotophorst	KA9HKL
Jim Romelfanger	K9ZZ
Fred Becker	W9KKM
LJ Hemmer	WB9TFJ (Home Base Station)
Art Kleefisch	W9WSS

It was decided to operate WB9FDZ Field Day Station at the Owen Park site on June 23rd and 24th. Two stations, a Novice, and a packet station will be set up. Dennis Sweeney will contact Ken, K9EN, to get the generator out to the operating site.

Joe Sweeney, KB9ERR and Steven Steele, KB9ESD, are new YTARC members. They both have new Novice Class License.

The Buck Nite drawing was won by Gary Pratt, WB9ECO, who was not present to collect.

The meeting was adjourned at 9:30.

Art Kleefisch, Secretary

YTARC BIRTHDAZE

Charles Scholten W9BZU July 19

SENTENCE SERMON

Man's capacity for justice makes democracy possible; but man's inclination to injustice makes democracy necessary.

--Reinhold Neibuhr

TESTPOINT (continued from page 4)

Tomahawk, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No pre-registration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

DUBUQUE, IOWA (ARRL/VEC)

September 15, and December 8, 1990

Exams are at 9 a.m. in the Central Fire Station at 9th and Central in Dubuque. Use the basement entrance on 9th Street. Contact Mike Jozefowicz, NSOU, 2735 Hickory Hill, Dubuque, Iowa, telephone 319-582-8563. Talkins are on the 147.84/24 and 147.63/03 repeaters.

(Thanks Art Evans, KA9KLZ)

Loves Park, IL

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, 5006 N. Second St., Loves Park, IL 61111. (815) 877-6768.

MINNESOTA TESTS

September 8, 1990	BARC
September 15	SPRC
September 29, 1990	SEMARC
October 13, 1990	BARC
November 10, 1990	BARC
December 1, 1990	SPRC
December 8, 1990	BARC
December 15, 1990	SEMARC

Locations and contacts:

St. Paul Radio Club (SPRC)
St. Lukes School (cafeteria)
1065 Summit Ave.
St. Paul, MN
contact: Jay Bellows (612) 222-7253

Bloomington Amateur Radio Club (BARC)
Creskide Community Center
98th and Penn Ave. So.
Bloomington, MN
contact: Art Putt (612) 881-7181

SE Metro Area Radio Club (SEMARC)
St. Thomas Aquinas Activity Bldg.
920 Holly Ave.
St. Paul Park, MN
contact: David Harrell (612) 459-1647

The above Minnesota test are listed as a help to readers near or traveling thru the area. If you are interested in any of these, please save this listing as we may not always have space available to list them. Thanks to "Ground Wave" for the above information.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

MILWAUKEE RADIO AMATEURS' CLUB - MRAC/VEC

1990 examination dates: Sep. 5, Oct. 3, Nov. 7, Dec. 5.

Tests are Wednesday evenings at 7:00 p.m. at Wauwatosa East High School, North 74th and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the 2nd floor. Please arrive promptly, so testing can be completed before 10:00 p.m. Bring along your original license and three (3) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required are a pen and \$4.75 for the exam fee. WALKINS are welcome. To register in advance, use a 15 cent U.S. post card: print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa, WI 53226, or to Ed Sergua, KE9JJ, 3840 South 43rd Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545-6299.

SCHOLARSHIPS AVAILABLE

The South Milwaukee Amateur Radio Club is offering two \$500.00 scholarships to any licensed Amateur Radio operator from the State of Wisconsin. Scholarships will be presented for any accredited two-year Associate Degree program or any four-year accredited degree program. Applications due by August 1, 1990.

For information: South Milwaukee ARC
Box 702
South Milwaukee, WI 53172

Or call: Vern Teske
(414) 762-3235



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